

Thorough, 3
 Good, 2.5
 Indifferent, 1.5
 Bad, 1
 Failure, 0

A. & M. COLLEGE.

CLASS; DEPARTMENT OF *Preparatory Instruction*

REPORT FOR ^{*Eleven*} ~~THE~~ WEEKS ENDING, *Dec. 4,* 188*5.*

SCALE OF DAILY MERIT.

MAXIMUM FOR THE WEEK, 15.

No.	NAMES.	M.	T.	W.	Th.	F.	TOTAL.	REMARKS.
1	Burton R. A.	Algebra				8.7		Geography 7.2
2	Cassell R. L.	"				6.9		
3	xxxxxx							
4	Howard	Algebra				7.3		Arithmetic 4.5
5	Humston	Geography				5.2		" 8.5
6	Jones	Algebra				7.6		Arithmetic 8.7
7	Keahffer	Algebra				9.7		
8	Kilgore	Geography				7.3		Hr. Eng. Exam 8.9
9	Kimbrough	"				4.3		Arithmetic 3.1 Elem. Eng. 6.3.
10	Lackey	Arithmetic				8.9		
11	McDonald							Arithmetic 6.25
12	Mays	Geography				6.2		
13	Mitchell	Algebra				10		
14	Patterson	Algebra				7.1		Elem. Eng. 7.2 Arithmetic 9.3
15	Pittet	"				9.0		Arithmetic 8.3
16	Rucker	"				8.0		
17	Stephensfield	Geography				8.1		Arithmetic 6.1
18	Shain	Algebra				6.8		Arithmetic 7.7
19	Smith Miss A.	Geography				9.0		" 9.8
20	Wenewood	Geography				8.1		" 6.5 Elem. Eng. 4.5
21	Weddington	Algebra				8.1		Arithmetic 8.
22	Long.	Geography				7.9		" 8.2
23	Sutherland	"				8.4		Arithmetic 4.6
24	Marshall							" 9.3
25	Taylor L. L.	Hr. Arithmetic				9.		
26	Berry B. D.	"				8.2		
27	Boyle	Geography				8.5		
28	Herr	Hr. Algebra				9.5		
29	Bush	Geography				8.2		Arithmetic 9.
30	Salmon	Arithmetic				9.6		

W. H. Patterson

Agricultural and Mechanical College

OF KENTUCKY.

COMMANDANT'S OFFICE.

Lexington, Ky., May 30 1886

Pres J. H. Patterson.
Sir:

I have the honor to submit herewith my Report for the year ending June 2^d 1886.

During the year little has occurred in my Department to call for notice.

Drills in Squad, Platoon and Company Tactics have been held. coaches permitting and the entire course prescribed by Infantry Tactics

has been gone over several times and satisfactory progress made. - better than last year. Fewer men have asked to be excused and the interest exhibited has been very much greater.

Much of this I attribute to the new guns, equipments, blank carriages &c. which gave a variety not before obtained. The two pieces of cannon have also assisted materially. No sets of Cannonmuzzers having been once drilled for each in the Service of the piece.

The discipline has been kept up to the standard and cases requiring severe punishment

✓
Agricultural and Mechanical College

OF KENTUCKY.

COMMANDANT'S OFFICE.

Lexington, Ky., 188

have been sent. But 7 cases have been sent to the Faculty by the Board of Discipline - all but ^{two} ~~one~~ for being intoxicated - resulting in two dismissals, one suspension, and four less punishments.

I have no recommendations to make for my own Department. And but two recommendations to make for the general good of the College, 1st a change in the manner in which the result of Examination now counts. Under the present system the average made in each branch during the 10 months class application is added to the average made at Examination, then sum divided by 2 and the quotient taken as the result of the year's work. - thus causing half an hours examination to balance the tedious work of 40 weeks. Suppose he has an average of 12 and makes only 10 at Examination thro' fright, nervousness, or over anxiety. His result is $\frac{12+10}{2} = 11$. As he requires $11\frac{25}{100}$ to pass his 2nd year and goes back a whole year.

Agricultural and Mechanical College

OF KENTUCKY.

COMMANDANT'S OFFICE.

Lexington, Ky., 188

Another, his room-mate may-be, and who is no brighter and studies far less, has an average of only 10. At examination he is cool, collected, makes the best possible use of his chances and making a good relation gets 13. His grade is $\frac{10+13}{2} = 11 \frac{50}{100}$ and he goes through any system that puts half an hour to an hour Examination equal to the result of 10 minutes work is, in my opinion, not fair to pupil or Instructor.

As our Regulations are based evidently on that of the Military Academy their plain might ~~xxx~~ read - that Examination Counts as 10 ordinary relations only or 30 units.

2^d I respectfully recommend that a brick cover, with curbing of brick, be laid from the College to the main gate to replace the old plank walk now in use.

The old one is rotten, constantly undergoing repair, is too narrow for two people, and has caused some severe falls by boards

A and M. Coe of Key
Office of Commandant
Levittown Key
May 31. 1886

Commandant of
Coasts
Harris annual
Report for year
ending June 2. 1886.

47-N-64

A. M. College, May 31st 1886

Prof. Jas. H. Patterson,
President A. M. College
Lexington
Ky.

Dear Sir

I have the honour to hand
you herewith Reports of the Classes taught
in the Department of German and French.
The Classes were attended during the year
by fifty six students, twenty two of whom
were girls. They were taught in six Classes,
1st 2nd and 3rd German, and 1st 2nd & 3rd French.
Four of these Classes, 1st & 2nd German and
1st and 2nd French recited five times a week
the 3rd German and 3rd French, classes
beyond the required College course, recited
twice a week each.

Very Respectfully

E. M. Helbert

Prof of German and French

The following tabular statement shows the attendance, and the distribution of students in classes for the year just past.

Classes.	No. enrolled.	Dropped during term.	Passed Ex
Anat. & Physiology,	30.	7.	18
Geology.	4.		3.
Comparative Zool.	1.		1.
Drawing.	8.	5.	3.
Physical Geog.	13.	4.	7.
Zoology,	7		7.
Histology,	4.		4.
Paleontology,	1		1

The average standing in the classes is as follows. Anatomy and physiology, 12.6 - Geology, 14.8 - Comparative Zoology, 15. - Drawing, 14. - Physical geography, 11.9 - Zoology, 12.5 - Histology 14.3 - Paleontology, 15. The Physiology class was taught in two divisions daily to accommodate a number who could not attend the regular hour.

Special mention should be made of the following who have attained highest rank. T. H. Morgan having a standing of 15. in two classes running through the whole year; Miss Laura Clay having the same rank in Zoology *and V. E. Muncy having 14.8 in Anat & physiology*. Very excellent work has also been done by the Misses Anna and Marie Ingram, in a year's course in drawing.

Most of the students who have studied in this department have been greatly hampered by attempting to prepare for too many daily recitations. The average scholarship is of necessity lowered on this account, while some have failed to pass final examinations in consequence, involving a loss of time as well as of rank.

Some very important steps have been made possible in the direction of organizing a department of Natural History, by the grant of a working fund. I have not deemed it best to expend the whole amount this year; not because of decreased needs but with the expectation that by carrying forward a part of this years appropriation I may be able next year to purchase some much needed apparatus which will cost more than one years fund. I have thought it best in view of the needs of all the department of the college, to ask for no more than the \$500.00 working fund for the coming year.

For financial statement see accompanying and previous account with vouchers.

The additions made this year have been chiefly books and microscopical apparatus. I have thought it but just to charge to this fund some of the expenditures which I had made personally for the department including a type collection of minerals purchased of Dr. Foote of Philadelphia, a case of birds prepared by Shorten of Cincinnati, and a set of models for the drawing class; all indispensable but hardly chargeable to the teacher.

The work done this year in pursuance of the plan to build up a department of natural history, has resulted in some substantial gains. The Peter Herbarium has by the assistance of Mr. T. H. Morgan been classified and arranged for reference in the large case built for it some years ago. The whole collection including nearly the whole flora of Kentucky with large additions from the adjoining states is now distributed in genus covers and plainly labeled in type. Mr Morgan has contributed his labor for the nominal sum of 12.5 cts. per hour. (see vouchers). The special studies of Mr Morgan in comparative zoology and anatomy have resulted in many preparations of great val-

ue to the department without cost other than that for a few chemicals &c. and some books which are themselves an acquisition to the library.

It is expected that Mr. Morgan will for two years to come pursue the studies begun with me at Johns Hopkins University; and it will be needful for me to appoint a student assistant to take his place for the time.

Additions of books most of which are desirable for the department and some of which are of special value have been made through the kindness of Hon. W. C. P. Breckenridge from the Departments at Washington to the number of about sixty volumes.

The Mechanical Department under the immediate management of D. A. King, has enrolled 13 students in shop work practice, all of whom are required to give two hours per week to the elements of drawing preparatory to mechanical drawing. Of this work I have taken the charge. It is hardly needful to say that in practical mechanics the lack of preliminary training is met with more than in the ordinary school branches; and the need of immediate personal supervision is proportionally increased. This Mr. King has been able to give, with results which though uneven are on the whole very commendable.

It will be seen that I have used small amounts of the working fund of the Natural History Dep. to meet necessary expenses in the shop. A working fund should be provided for the shop for next year. \$200.00 will be needed if steps are to be taken towards building a very much needed clock for the tower.

A. R. Brandall

Lexington Ky May 31st 86

Lexington Ky., May 1886.

President James H. Patterson,
State College
Lexington, Ky.

Dear Sir:

I enclose with this communication a list of the pupils in the several classes of the School of English, and submit the following as my report for the Collegiate year 1885-86, now drawing to a close.

I have taught during the year four daily classes, viz; a Preparatory class, two ^{or} Freshman classes, and one Junior class, occupying my time each day from 9 A.M. to 1 P.M.

Instead of continued drill in English Grammar, I have this year endeavored to interest the Preparatory Class in the study of Rhetoric.

I have found Rhetoric a branch, not difficult to teach, but difficult to make interesting to the average pupil.

In addition to the ordinary recitations, I have had frequent black board exercises for the discussion and criticism of the whole class, and I have found these discussions and criticisms highly entertaining to the class and the professor, and consequently highly instructive.

I have frequently required each member of the class to bring me written reports of sermons and lectures which he has

heard. Some of these reports have been very creditable. Of course I require the pupils of this class "to write compositions," and I have not unfrequently heard, in other years, essays from unschooled boys that would have done credit to the great writers of the English language.

The rehearsal^{ing} of classic essays from great writers would not be an unprofitable exercise, if only honestly done, but when a thoughtless boy claims these essays as wholly original the moral damage is far greater than the intellectual profit. The temptation

to plagiarism seems in many cases to be irresistible, and to enable the pupil to escape it I sometimes have essays written under my own eye in the class

~~room~~ upon some subject previously announced.
 My Freshman Class is divided
 into two sections, one reciting from 9-10,
 the other from 11-12 A.M.

In these classes the pupils are required
 to commit to memory masterpieces of
 English poetry and prose.

These pieces, too, are explained and
 discussed in the class room. What
 we term a "literary analysis" is an
 important and interesting feature of
 the instruction given in this class,
 which instruction is not about literature
 but in literature.

I require from this class the same
 exercises in composition that I require
 from the Preparatory Class.

6
In the Junior Class the first months of the session are taken up in the study of Logic.

I do not spare this class; I exact from them the most severe intellectual work.

It has been my study for years in teaching Logic to teach the pupil to translate the great abstractions of this science into the concrete, and to illustrate them by the constantly recurring experiences of every day life. I am giving more attention year by year to practical inductive and analogical reasoning.

The last five months of the Junior year are devoted to the study of that most interesting text book, Shaw's Manual of

English Literature, and Hill's Rhetoric.

We have had, too, a number of class readings in Burke, Bacon, Milton, and Shakespeare. ^{my} These readings I have found both entertaining and profitable. ^{my} The principal object aimed at was fully to master the thought and enter into the spirit of these great writers.

All the members of this class have been as faithful and industrious as the most exacting teacher could ask.

I desire to commend the ~~conduct~~ of the pupils in all my classes. Some of them have not always been as attentive as they might have been; but they have all, without a single exception, been orderly and respectful.

7

As usual some of my pupils have been very indolent, and some, very industrious. ^{my} There has been a fair amount of faithful work done in all my classes.

It affords me great pleasure, Mr President, to acknowledge your uniform courtesy, and helpful sympathy with me in my work.

Yours truly
John Shackelford.

List of names enrolled in Prof. Shuckelford's classes.

Preparatory Freshman Rhetoric

- | | |
|--------------------|---------------------|
| 1 R. Anderson | 20, R. E. Woodward |
| 2 R. Bryan | 21, J. W. Word. |
| 3 Henry Berry | 22, H. Wallingford. |
| 4 B. D. Berry | |
| 5 C. Boyd | 22 |
| 6 A. Bonnyman | |
| 7 H. Clubb | |
| 8 R. J. Cassell. | |
| 9 J. A. Denny | |
| 10 L. J. Doty | |
| 11 J. O. DeCoursey | |
| 12 W. F. Howard. | |
| 13 C. J. Gibson | |
| 14 J. C. Mitchell | |
| 15 J. V. Nicholas | |
| 16 J. W. Rucher | |
| 17 S. W. Sledman. | |
| 18 C. W. Sleet. | |
| 19 S. B. Thomas. | |
| 20 R. B. Walker | |

Freshman. Studies in English Literature.

- | | |
|---------------------------|------------------------|
| 1 Claude Allen. | 22. L. L. Taylor |
| 2 Miss A. Baker | 23 J. W. Thornton |
| 3 Miss S. B. Baker | 24 R. M. Thompson |
| 4 Miss Alice Bronston | 25 Miss Alice Smith |
| 5 R. A. Brown | 26 Miss Callie Warner |
| 6 Miss S. E. Curtis | 27 R. L. Weaver |
| 7 Miss Blanche Cheek | 28. J. E. Butler |
| 8 R. R. Forston | 29 J. A. Haggard |
| 9 B. B. Golden | 30 Miss Mary Purnell |
| 10 John Gunn | 31 H. H. Petit |
| 11 H. H. Herr | 32 Miss Lena Harrison |
| 12 E. M. Huguley | 33 Miss Clara Cochrane |
| 13 Miss Jennie Hanson | 34 Miss Annie Stivers. |
| 14 S. Reahofer | |
| 15 C. Land | 34 |
| 16 Miss Mattie McElhinny. | |
| 17 J. E. Oldham | |
| 18 A. J. Rankin | |
| 19 R. L. Stevens | |
| 20 W. B. Shropshire. | |
| 21 J. C. Taylor. | |

Junior Logic.

- 1 C. S. Brownell
- 2 Hugh Frazier.
- 3 Miss Belle Gunn
- 4 J. W. Shackelford.

4

Junior English Literature and Rhetoric.

- 1 C. S. Brownell
- 2 Hugh Frazier
- 3 Miss Belle Gunn
- 4 J. W. Shackelford
- 5 Miss Ada Seovell
- 6 Miss Lizzie Seovell
- 7 Frank Seovell,

7.

June 5 1886

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

Gentlemen

The College year of 1885-6 has been in many respects
the most prosperous which the College has ever known.

Its numbers have been steadily increasing till it has
now reached the very respectable matriculation list
now on its books. The whole number admitted to
membership last year was (268) Two Hundred and
Eighty eight, and increase of forty one the matriculation
of 1884-5 and of forty one that of 1883-4.

But the internal growth of I may so phrase it, is even
more gratifying. The Faculty of Instruction in the Normal
School has been doubled. There are now two Professors
who have devoted their time to the work of this Dept.
But this by no means represents the work done for the
Normal School. Every other Dept. in the College is
so far as instruction at the service of the Normal
School Department. Of course no Professor in ~~the~~ the Dept.
of Mathematics, Classics, Modern Languages, Chemistry,

Natural History, or Civil History is expected to do Normal School work. This latter is the appropriate office of the Normal School Professor. But his class rooms are open and he is ready to provide the instruction ^{upon} which the Normal Professor will ^{superintend} ~~provide~~ the Science of Teaching. The Normal School as now constituted is I think adequate to the demands for training teachers. But I do not say that we have reached the limits of growth in this direction. By no means. The numbers who will seek instruction in the ~~science~~ best methods of imparting knowledge will undoubtedly grow in an increasing proportion from year to year. I believe it is the disposition, perhaps I may say the determination of the governing authorities of the College to increase the staff of this school pari passu with the increased demand for Normal School training. It is the only Normal School in the Commonwealth fortified by state aid, amenable to state supervision and control. It possesses within itself the elements of hearty growth and expansion. The head of the school

an additional assistant with results out of all proportion
to the additional expenditure.

The Director of the Louisville Exposition has invited the
College Authorities to occupy space in the Exposition under
his charge during the coming Autumn. The Executive
on behalf of the College has signified to the Director their
disposition to comply with his invitation. Professor Scovel
to whom I submitted the invitation of the Director of the
Exposition believes that the College can make an
exhibit creditable to itself and to the Commonwealth.
If so it will be an admirable means of making
the College better known to the general public.

The finances of the Institution are in good condition.
One year ago we had the pleasure to pleasure
of informing the Board that all the obligations
of the College had been fully met and that every
dollar of the indebtedness which caused us so
much discomfort four years ago had been
paid, principal and interest. The surplus of the
last year over the ^{average} normal expenditure of preceding

the year has been employed ^{mainly} in the payment the
additional salaries required by the creation of the
Experiment Station, by the strengthening of the Normal
Department, by ~~the appointment~~ ^{of the Prof. of Modern Languages} raising the salary of
the Principal and Assistant in the Preparatory
School and the employment of an additional tutor
in the Latin Latin, and by the outlay for the
improvement of the Laboratory for the Experiment Station.
The belief seems to be well-grounded that the Revenue
Bill passed by the last Legislature will increase
the income derived from the state. This may
be. I do not think however that it would be
wise to incur much expenditure for the coming
fiscal year based upon the assumption of
increased income. Let us rather limit the
expenditure of the coming year mainly to the lines
already laid down. There will be no trouble
to dispose of an actual surplus when the expenditure
of one year has enabled us to calculate with
a reasonable degree of certainty what the

Surplus will be. We need a new dormitory for
boys. This has ^{now} become the indispensable condition
of future growth in attendance. Last year
the lodging and boarding accommodations of
the College were taxed to their utmost. We cannot
^{in justice} take steps to increase our attendance while we
provide ~~no~~ additional accommodations.

We are in urgent need of additional rooms
for Library, for Museum, for Literary Societies,
for Mechanical Department, for Laboratory expansion
for Preparatory and Normal School work and
for the Young Men's Christian Association.

Now that we are fairly on our feet and
the distance of the College seems to be around
men of wealth who are disposed to perpetuate
their names in connection with some enduring
work for the benefit of their contemporaries and
posterity may in time find a proper place
for a beneficent liberality in a building ^{to house} for any
^{one} of their much felt wants. The time will

doubtless come when patriotic Kentuckians who love
their race and their state will be proud to
do for the State College what the liberal men
of wealth elsewhere have done and are
doing for Harvard and Yale, for Cornell
and Michigan University, for Princeton College
and for Johns Hopkins. No other work
so truly could engage the attention or the affection
of the Christian the Philanthropist and
the Patriot.

Herewith submit to the Board the Reports of the
Persons in charge of the various Departments
which reports are made part of this Report.

In conclusion I beg to congratulate the Board on
the prosperous condition of the College ^{and} to thank them
for their continued confidence and support
I have the honor to be

Yours A. L. S. J. S. J. S.

Jas R. Patton

and his coadjutors are both greatly and intelligently interested in this work. They have labored faithfully to lay a good foundation on which to build. A good beginning has been made with an augury of a prosperous future. But still more important so far as the fulfillment of the requirements of the organic law of Congress are concerned is the progress which has been made in the direction of experimental agriculture for the benefit of the Farmers of this Commonwealth. The Board of Trustees at this last annual meeting in June appointed a Committee to attend the Convention of Representatives of Agricultural Colleges called to meet at Washington by Hon. A. J. Coleman Commissioner of Agriculture in July last. Two members of the Board Dr R. J. Sprun and Maj. P. P. Johnston and myself attended the Convention. The Committee stimulated by what they saw and heard on the floor of the Convention recommended to the Executive Committee in a report which they made on their return that the State College of Kentucky take steps to do what nearly

all the agricultural colleges in the country have done, viz:
to establish an experimental station in which work exclusively
experimental should be done. This they believed they could
do at a moderate additional expenditure. ~~Consequently~~ By
direction of the Executive Committee I attended the meeting
of the American Association for the Advancement of Science
held in Ann Arbor Mich. during the latter part of
August, for the purpose of enquiring among the scientific
gentlemen assembled there, in order to find a proper
person to appoint as Director of the station which the
Executive Committee had determined to establish. I was
so fortunate as to be put in correspondence with Prof.
M. A. Scrabble at that time engaged in Ottawa
Kansas, in the conduct of a series of experiments
indicated by the Bureau of Agriculture at Washington.
Satisfactory terms were made with Prof. Scrabble and
he left a salary of \$2000 per month under the
Appropriation National Bureau of Agriculture to come to the
State College of Kentucky as Director of its station.
The Executive Committee then constituted the station

I am satisfied that this Department of the Institution will
prove a main stay of the College in the Commonwealth.
It has already commended itself to the Honors of the
Commonwealth who see in this new Department an honest
effort to realize in one of its principal features the
intent and purpose of the Organic Law of 1862.
The following bill passed by the Legislature will also
bring us into intimate relationship with the
Agriculturists of Kentucky.

for the results already obtained by the station and the work in hand and the objects aimed at I refer you to the accompanying report of the Director I beg to say this only before leaving this part of my report that I congratulate the Board in that at the College secured the services of Prof. Sewell. Full of energy, an untiring worker, an intelligent and able administrator and a most excellent analytical chemist. I do not believe that a better man for the work could have been gotten anywhere.

Considerable expenditure was required to fit up a laboratory and ^{provide} supply it with the necessary chemicals and apparatus in order to supply the material necessary for the work of the station. This has been met out of the income of the College and I am happy to say that the Director is now fully equipped for the work required to be done.

The ordinary routine of class room instruction has been gone through with during the last year. The Preparatory Department has been strengthened by the employment of

with the following staff of Officers viz:

M. A. Scovell Director

Prof. Peter - General Chemistry

A. R. Coomall, Natural History

A. E. Menke, Botany and Agricultural Chemistry

To the foregoing has since been added A. I. Parker as Microscopist.

Profs. Peter Coomall and Menke are Professors as the Board are aware in charge of Departments in the College. In addition to their own proper work of class instruction they consented to become members of the Experimental Staff. In this connection it gives me pleasure to say that Prof Scovell bears testimony to the hearty and active and valuable cooperation which he has received from Prof Menke in his Analytical and Experimental work.

The following Circular will explain the aims and work of the Station.

I desire to call the attention of the Board to some of the regulations relating to the occupants of the dormitory such as Verelle Tutor, marching to and from meals. to the regulations relating to the maintenance of order in the study room, and the regulations respecting arrest. I suggest that a Committee of Enquiry be appointed in relation thereto.

The Faculty recommend the following degrees.

Bachelor of Arts

Robert Lee Pruitt

Astoria

William Pruitt

"

St

Bachelor of Science

Thos. H. Morgan

Lexington

Master of Science

Thos. H. Kossel

John Hoptons Bell

Master of Arts

John Patterson, J. A. Shackelford, Louis R. De Rudder

J. W. Layton.

Honorary Degree

Doctor of Laws.

Ben J. Buckner

Louisville

A. & M. College, Lex. Ky.
June 1st 1886.

Pres. Jas. K. Patterson;

Dear Sir;

During the session now closing the attendance in the several classes in the school of Mathematics has been good. My pupils generally have done good work, but the result of my session's work is not entirely satisfactory to me. By the changes in our schedule of studies, made two years ago the ^{time} devoted to my course was shortened by five months much to the detriment of my work. To this change more than to any thing else I

attribute the unsatisfactory portions of my work this session.

The best of order and good-feeling have prevailed among my pupils. In addition to my own class I have, during the last half of our session, had charge of a large class (numbering more than thirty at one time) in Prep. Algebra. The class was a good one; the record of attendance and scholarship of nearly every member being entirely satisfactory to me. Hoping that the cause of the unsatisfactory portion of my work this session may be avoided to some extent at least in future I am

Respectfully Yours
Jas. J. White, Prof. of
Mathematics in A. M. College of Ky.

1

A & M. College Lexington Ky. June 1. 1886

President James K. Patterson,
Dear Sir:

I desire to make to you and through you to the Board of Trustees the following report of the Preparatory Department under my management and control during the past Collegiate year

One hundred and fifty three pupils, one hundred and thirty eight males and fifteen females were enrolled, examined, and assigned to classes. Seven of this number left College without making a recitation.

Daily instruction was given in Elementary and Higher English Grammar, in Practical and Higher Arithmetic, in Elementary and Higher Algebra, in Geography and, during the 2nd. Term, ⁱⁿ Elementary History. The Elementary Grammar, Hr. Arithmetic, Elementary Algebra, Higher Algebra, and Geography classes were divided into two Sections each, and the Practical Arithmetic into three Sections. The Geography class was not sectioned till the beginning of the 2nd. Term, at which time the two Sections in Higher Arithmetic were consolidated.

It will thus be seen that thirteen classes or Sections were instructed ^{during} the 1st. Term and fourteen

during
 the Second. They were taught as follows, four by myself and one by Mr. Lambuth during the entire year, five by Prof. Pence during the first Term and three during the Second, three by Mr. McLellan during the first and four during the Second Term, and one each by Prof. White and the President during the Second Term. In all of the classes, except three, the result has been, in the main, satisfactory, a majority of the pupils attaining the necessary standard of proficiency to entitle them to promotion, should they return next year; this will be seen by reference to the weekly averages and examinations so far as completed.

There were nineteen pupils admitted, some at the beginning of the year, others later in the Session who were not qualified to enter the lowest classes, required to be taught, and provided for, in this Department. They were, for the most part, from the towns and villages of the State where the advantages of primary instruction are certainly afforded and where they could have prosecuted those elementary branches with greater advantage than here. They were instructed in two classes by Mr. McLellan and in one by Mr. Lambuth, did little good, and now are scarcely prepared, indeed some of them are not prepared, to enter our lowest classes for the coming year.

Several of the classes were large, two of them too large for thorough instruction. This was caused by our having to do all the work heretofore required to be done by the Preparatory Department for the Normal Department and receiving no assistance from that Department in return.

Mr. McLellan was absent from his classes about five weeks during the early Spring caused by severe illness. A part of the time Mr. A. W. Marshall of the city supplied his place. Prof. Bruce has been incapacitated ^{by sickness} for the performance of any College duties for the past five weeks. By exchanging some of my own classes, with the assistance of two Normal Students, I carried on his work as best I could. The effect of these interruptions was very marked on the classes affected by them.

I can not speak in terms of too high commendation of the faithfulness and efficiency of these gentlemen when able to be in their class rooms.

During the year, "Terrestrial globe and a good set of wall Maps have been furnished for the Department."

For a detailed exhibit of the work done in this Department during the year, I submit my Register of classes, weekly reports, class standing for the year, and results of examinations so far as completed.

In conclusion, I recommend that, in the future, ~~that~~ no student be admitted to this Department until he shall have passed a satisfactory examination in all or a majority of the branches required by the Regulations (Article 2 pages 13 and 14), for the admission of "properly prepared Students".

Respectfully submitted to your
consideration

I am

Your obedient Servant
W. K. Patterson.

Thorough,	3
Good,	2.5
Indifferent,	1.5
Bad,	1
Failure,	0

A. & M. COLLEGE.

CLASS^{ES} DEPARTMENT OF

Year. 1886
REPORT FOR THE WEEK ENDING, June 2nd 1886.

SCALE OF DAILY MERIT.

MAXIMUM FOR THE WEEK. 15.

No.	NAMES.	M	T	W	Th	F	Sat	Total.	REMARKS.
1	<u>Caesar & Virgil</u>								
2	* <u>Amis, J. W.</u>							13.8 11. 12.4	
3	* <u>Bosworth, M. A.</u>							12.7 — —	Was examined preceding year
4	* <u>Boyd, Clarence</u>							14.3 12.5 13.4	
5	* <u>De Courcy, J. C.</u>							13.1 9.4 11.25	Only read Caesar.
6	* <u>Frany, Augustus</u>							13.6 12.6 13.1	
7	* <u>Reese, Kirk</u>							14.2 12.5 13.3	
8	* <u>Stearns, R. L.</u>							12.4 10.1 11.25	(Entered later) Needs to study the Grammar
9	* <u>Prewitt, Miss A.</u>							12.9 12.3 12.6	
10	* <u>Prewitt, " M.</u>							14.5 — —	Left class April 1 st , on account of ^{health}
11	* <u>Warner, " C.</u>							14.7 14.5 14.6	
12									
13									
14	<u>Latin Grammar</u>								
15	+ <u>Cover, H. E.</u>							11.2 5. 8.1	
16	* <u>Innis, L. W.</u>							9.3 5. 7.2	
17	* <u>Marshall, H. C.</u>							7.4 5. 6.2	
18	* <u>Phelps, E. M.</u>							11.6 7 9.3	
19									
20	<u>Greek Grammar</u>								
21	+ <u>Bosworth, M. A.</u>							8.5 — —	
22	+ <u>Frany, Augustus</u>							13. 11. 12.	
23	+ <u>Mulligan, Louis</u>							8.5 7.5 8.	
24	* <u>Miss Warner</u>							13.9 11.1 12.5	
25									
26	<u>Sallust & Livy</u>								
27	* <u>Anderson, R. T.</u>							14.5 12.5 13.5	
28									
29									
30									

Will D. Lambuth

State College of Kentucky.

June 6, 1886.

President Jas. K. Patterson.

Dear Sir:

The following
is the Report of the Commercial
Department for the Session
of 1885-'86:

A class in Bookkeeping was
organized at the beginning
of the Session, composed of
fifteen members. Mr. J. L.
McLellan having expressed
a preference that he might
give instruction in Book-
keeping, at your suggestion
he took charge of this class,
while I took another class
in the Preparatory Depart-
ment. Mr. McLellan instruct-
ed the class during the

first term, at the end of
 which time I took charge
 of it and taught it until
 about the middle of April,
 when the members, now
 four in number, complet-
 ed their work. These four,
 Farley, E. Y., Fitzgerald, J. E., O'Connor,
 J. A., and Sharpe, G. N., did
 their work in a creditable
 manner, but were not
 examined. Six members,
 Dunville, R. A., Heck, J. A., Lackey,
 J. F., Sistrunk, W. T., Tudor, J. E., and
 Kealhofer, S., had been dropped
 from the class when I
 took charge of it, the first
 five having quit college. Four
 members, Davis, G. E., Farnam, W.
 A., Holladay, B., and Thornton,
 J. W., were examined at the
 beginning of the second
 term on the work gone over,

and were excused from the class. Of these Hannan and Thornton passed examination. C. M. Saffarans was not present in the class after February 19. I think he quit college about this time. Farley, Fitzgerald, O'Connor and Sharpe are entitled, I think, to receive certificates showing that they have completed one year's work in the Commercial course.

At the beginning of the second term I also organized a second class in Book-keeping, composed of the following members: Garred, U. A., Maple, W. B., Marshall H. C., McCawley, S. W., Peters, J. M., Putnam, E. H., Sloan, A. P., Meddington, B., and Wallingford, H.

Meddington, having too many studies, was excused from the class. I taught this class until the 23rd of April, when I took sick and the class received no further instruction. It had, however, about completed its work. The standing of the members was fairly good. They were not examined.

Respectfully Submitted,

M. L. Pence.

President J. H. Patterson,

Permit me to submit the following: The whole number of papers belonging to the Normal Dept. of the A. & M. College for the scholastic year ending June 2^d,

~~1886 ————— 65~~

~~Males, 34~~

~~Females, 31~~

The year just closing has been productive of better results than that of any other year since the beginning of the Dept. A large proportion of the students, who entered the Dept. during the past year, design making teaching their profession for life.

Generally they have shown an increased interest in their work and have by consequence pursued their studies with commendable zeal and

industry. And I may add too, that the number of those showing an aptitude for the vocation of the teacher, is much greater than ever before. With few exceptions, the pupils composing this Dept. are poor & they are therefore compelled to betake themselves to teaching, that they may ~~acquire~~ ^{procure} the means of returning to college, either at the beginning of the second term of the next session or at the session following.

Some more fortunate, however, will return, Sept. next, thus entering upon the second year of the Course of Normal Instruction, prescribed by the Board. This is encouraging, and is something that has never happened before in the history of the Dept.

The results justifying, I think, the wisdom of the Executive Board in increasing the efficiency of the Dept. by adding to it another ~~teacher~~ Professor. The selection of Prof. Potter, has proved an

many accounts fortunate for the Dept. He has shown himself to be an excellent teacher, devoted to his special work, and zealous to promote the advancement of his pupils.

Permit me briefly to sum up the ends we desire to accomplish in this Dept. of the College: The design, generally speaking, is strictly professional, that is to prepare students in the best possible manner for organizing, governing, & teaching the public schools of Ky., besides fitting teachers for the Academy & the High School. In order to this, the purpose is, 1st to give pupils an acquaintance with the subjects taught in the common schools of the state. 2^d A knowledge of ~~these subjects~~ other branches preparing him for a higher & more responsible place in his profession. 3^d the object is to make him scientifically familiar with the person he is to teach, that is to familiarize him with Psycho-

logical + Ethical Laws. 4th He is shown how to apply the principles thence derived, to the art of teaching. 5th School management, government, + discipline, are made a special object of attention. 6th Practical teaching is held obligatory, since the pupil teacher must impart to others, either in the model school or to his fellows, the lessons he himself has been taught. 7th The end aimed at is the evolution of character + hence to form the educator rather than the mere teacher. 8th To educate the coming teacher in the spirit of American life; to give him a knowledge of and to imbue him with a love for his country; its history, its traditions, its institutions, that he may the better be able to fashion the youth committed to his care for wise, honest + intelligent citizenships.

Kentucky University--College of Arts.

Mr. M. G. Thompson

Lexington, Ky., *June 10th*, 1886.

Dear *Sir*: In conformity to a law of this Institution, the Faculty sends you the following Report of the Attendance, Conduct and Scholarship of your *son Joseph Foreman Thompson* for the term ending this day. Your prompt co-operation with the Faculty is earnestly requested, whenever this Report indicates the need of it.

Very respectfully,

A. C. Milligan

Corresponding Secretary.

I. School of Greek.					VI. School of Sacred History.				
Scholarship.	No. Excus'd Absences.	No. Unexc'd Absences.	No. Tardy Attend'ces.		Scholarship.	No. Excus'd Absences.	No. Unexc'd Absences.	No. Tardy Attend'ces.	
The Greek Language					Old Testament History				
Greek Literature					New Testament History				
History of Greece					Evidences of Christianity ..				
II. School of Latin.					VII. School of Philosophy.				
The Latin Language					Mental Philosophy	93	4	0	1
Latin Literature					Logic	93	4	0	1
History of Rome					Moral Philosophy				
III. School of Mathematics.					Political Economy				
Mathematics					Constitution of the U. S.				
Mechanics					VIII. School of Mod. Languages.				
Astronomy					French	96	0	0	1
IV. School of English.					German				
Essentials of Eng. Grammar					The Hebrew Language				
Rhetoric and Composition ...					The Academy.				
English Literature	92	2	2	2	Greek				
History of England					Latin				
V. School of Nat. Science.					Arithmetic				
Anatomy and Physiology					Algebra				
Natural Philosophy					English Grammar				
Chemistry					History of the United States				
Zoology	95	2	0	0	Ancient Geography				
Botany	95	2	0	0	Modern Geography				
Mineralogy					Physical Geography				
Geology									

Estimate of Conduct, *100*; No. of Excused Absences from Chapel Services, *3*; Unexcused, *5*; Tardy Attendances, *0*.

NOTE.—Zero denotes the absence of merit; 100, the highest grade; and 75, the lowest that entitles a student to REGULAR STANDING in a class.

Report of the Standing of the Classes in Greek and Latin in the State College of Kentucky, for the Term ending June 2, 1886.

1. Class in Latin Grammar (daily).

Members. — Bonnyman, Walker, Mone (short time), Ryan, B. Becker, A. Baker, Seffarum (till March), Goldin, Skain, Thornton, Maddox (short time), Morrow (do.), Doty (about half the session).

Latin Studied. — The whole of Gildersleeve's Primer, 30 chapters of Caesar.

2. Class in Latin Grammar (daily).

Members. Hunt, Bulluck (three months), W. Walker, Mulligan, Railey, Patterson, Denny (three months), Calhoun (do.). The two last studied only 40 or 50 pages.

Latin Studied. The whole of Gildersleeve's Primer once.

3. Freshman class in Latin (daily).

Members. Miss Schmidt, Miss Hodge (short time), Miss McElhinny, Bosworth, Hoising.

Latin Studied. — All of Sallust, Writing Latin 2 months, a book and a half of Livy.

4. Junior class in Latin (3 times a week).

Members. — Payne, Shackelford, Richardson (till about March).

Latin Studied. — Cicero On Old Age, 4 Satires of Juvenal, 3 Books of Horace's Odes.

5. Senior Class in Greek (twice a week).

Members. — R. Prewitt, W. Prewitt, J. W. Shackelford.

Greek Studied. 6 Orations of Demosthenes, The Medea, The Oedipus Tyrannus.

This Class completed the course, and the members are pronounced graduates in Greek.

Classes taught by Tutor Lambuth.

1. Latin Grammar (daily)

Members. — Phelps, Marshall, Corver, Finis, Fitzpatrick (3 mos.), Butler (2 do.), Felix (3)

raggans (2 mos.), ... (2 mos.)

Latin Studies. The 1st two thirds of Gildersleeve's Latin Primer twice.

2. Class in Greek Grammar (daily).

Members. - Feeny, Bosworth, Mulligan, Miss Warner, Richardson (three months) -

Greek Studies. Nearly all of White's Lessons, Parts of Goodwin's Gram., 1 Book of Xenophon -

3. Class in Sallust and Livy (daily).

Members. - Anderson, Keller, Miss Warner (2 mos.), Nicholas (1 month),

Latin Studies. - all Sallust, 1 Book and 3 chapters of Livy, Writing Latin 2 months.

4. Class in Caesar and Virgil (daily).

Members. - Amiss, Allen (5 mos.), Bosworth (3 mos.), Boyd, De Courcy (three months), Feeny, Miss Lancaster (1 month), Nicholas (4 mos.), Reese, Stevens (3 mos.), Anna Prewitt, Margaret Prewitt (7 mos.), Miss Warner, Thompson (a few days), Jackson (a few days).

Latin Studies. - 4 Books of Caesar, 3 Books of Virgil, Latin Grammar.

This class recited in two sections, each section reciting an hour daily.

Barly wanted. Wall maps of the Roman Empire, Greece and Italy.

Respectfully submitted,

John H. Neville,

Professor of Greek and Latin.

Report of Classes in Greek and Latin.

June, 1886.

State College of Kentucky.

47-M-64

EDWIN ALDEN & BRO.'S
ADVERTISING AGENCY,
66 West Fourth Street,
CINCINNATI, O.

Statement showing the dates of Insertion of the Advertisement

[June 26, 1886]

Date sent out

of

Order Book

Space

Times

Page

Ashland
Augusta

Ky. Independent
Bulletin

Cincinnati
Bowling Green

Chronicle
Record

Burlington
Beattyville

Democrat
Recorder

Carlisle
Covington

Enterprise
Herald

Columbia
Cynthiana

News
Spectator

Central City
Castlesburg

News
Argus

Cincinnati
Cincinnati

Methodist
Apostolic Guide

Elizabeth
Franklin

Advocate
Herald

Gilbert
Galmouth

Constitutionalist
News

Glasgow
Greenville

Favorite
Fultonian

Hazel Green
Highland

Democrat
Times

Hartford
Hopkinsville

Echo
Herald

Lawrenceburg
Lebanon

Courier
Herald

Lexington
London

New Era
News

Louisville

Standard Times
News

Mayfield

Observer
Mt. Echo

Express
Commercial

Courier-Journal
Herald

Monitor

EDWIN ALDEN & BRO.'S
ADVERTISING AGENCY,
66 West Fourth Street,
CINCINNATI, O.

Statement showing the dates of Insertion of the Advertisement
of _____
Space _____ Times _____

Date sent out _____
Order Book _____
Page _____

City	Publication
Maysville	Ky. Eagle
Morgantown	News
Milton	Free Press
St. Olivet	Tribune
Murray	News
Owensboro	Inquirer
Owenton	Messenger
Paducah	News
Paris	Standard
Princeton	West. Citizen
Richmond	True Kentuckian
Rosselle	Gannett
Shelbyville	Register
Somerset	St. Paul Express
Stanford	Sentinel
Taylorville	Reporter
Waverly	Interior Journal
Waverly	Courier
Whiteburg	Courier
West Liberty	Woodford Sun
Winchester	Sunbeam
	Sp. Scorchers
	Sun
	Democrat
	Courier
	Democrat
	Distinger
	Record

235

Lexington, Ky.

188

M. A. & M. College

Bought of JOHN T. MILLER,

—DEALER IN—

Grates, Mantels, Building Hardware, Tools,
Bar Iron and Steel, Table and Pocket Cutlery.

MAIN STREET, BETWEEN MILL AND BROADWAY.

1881

Jan'y	2	4 pr Butts ²⁰ 40	2 Cupboard Catches ²⁰ 40	80	Alexander
	4	1 Hand Vise		50	Monroe
	6	2 Wrasps ¹⁵ 30	1 pr Sharp Nings 30	60	Murry
		1 Pad Lock 40	Wrtails 15	55	"
Feb'y	11	1 Compass Saw 65	1 Ratchet Brace 225	290	Monroe
		3 Bits ¹⁰ 30	1 Cold Chisel ³⁰ 1-1 1/2 Long & Steel ¹⁰ 7	140	"
	12	1 2 foot Rule ¹⁵ 15	16 ¹⁰ 2 Sprock Wire 20	67	Murry
	18	1/2 doz Hitching Rings ¹⁰ 60		60	"
	20	5 ¹² 12" Nails 25		25	"
	26	1 Spindle & Screw for Knobs		15	Monroe
March	3	1 Knob Lock 100		100	"
	4	2 pr Sharp Nings ³⁰ 60	1 Hap 15	125	Murry
	11	1 Screw driver Bit 15		15	Monroe
April	13	100 ⁴ 100" Nails 400		400	Murry
June	30	1 Scythe Stone		14 8 2	
				10	
				\$ 1492	

Thorough, 3
 Good, 2.5
 Indifferent, 1.5
 Bad, 1
 Failure, 0

A. & M. COLLEGE.

CLASS; DEPARTMENT OF *Practical Chemistry*

General Average of the Term

REPORT FOR THE WEEK ENDING,

June

188*6*

SCALE OF DAILY MERIT.

MAXIMUM FOR THE WEEK, 15.

No.	NAMES.	M.	T.	W.	Th.	F.	TOTAL.	REMARKS.
1	<i>Class in Qualitative Analysis</i>							
2								
3	<i>Denny W.B.</i>	-	-	-	-	-	14.44	
4	<i>Denny J.A.</i>	-	-	-	-	-	14.35	
5	<i>Rankin A.G.</i>	-	-	-	-	-	12.83	<i>did not complete the course</i>
6	<i>Shupe G.N.</i>	-	-	-	-	-	14.36	
7								
8								
9	<i>Class in Quantitative Analysis</i>							
10								
11	<i>Patterson W.A.</i>	-	-	-	-	-	14.57	<i>did not complete the course</i>
12	<i>Gunn R. T.</i>	-	-	-	-	-	14.88	
13	<i>Hanson Jennie M.</i>	-	-	-	-	-	14.92	
14	<i>Halladay B.L.</i>	-	-	-	-	-	14.88	
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

Annual Report of the Professor
of Experimental Physics and Elementary
Chemistry
Session of 1885-6.

First Term - The number of Students who entered the Class in Experimental Physics was forty-four.

Of these twenty-seven remained until the end of the course and the final examination.

Five of these failed to attain the standing enabling them to pass.

The number who entered the Classes in Practical Chemistry, ^{in this term} under my son Alfred M. Peter (Assistant) was thirteen.

Of these eleven studied and practiced Qualitative Chemical Analysis and two Quantitative Analyses.

Seven of those in Qualitative Analyses continued until the end of the term, attaining a very good

2.
class standing; - four dropped out before the completion of the course.

One student, of the two in Quantitative Analyses continued until the end of the term and made a very good record of his work.

Second Term

Forty-one students entered the class in

Elementary Chemistry, of whom twenty-eight remained until the end of the course.

The general class standing and record on examination of these was, - with some meritorious exceptions - moderately good only. Six fell below the general average entitling them to pass.

During this term eight studied Practical Chemistry, under the chemical assistant; ~~all of whom~~ ~~obtained~~ - four in Qualitative, and

155

Kimberly

One drawback to the experi-
- mental demonstrative instruction, in
my lecture-room - is, that the benches
being on a general level the students on
back rows are frequently unable to

see illustrative experimental demon-
 - strations ^{exhibited} ~~performed~~ on the lecture-table
 - a fault which could easily be remedied
 by the expenditure of from twenty to thirty
 dollars in placing the benches on an
 inclined platform, so that those of the
 back rows could see over the heads of
 those in front.

I therefore respectfully request that
 this improvement be made.

I also suggest that it is desirable
 to make some additions to the appara-
 - tus for instruction in Physics - as
 soon as the funds will admit

Very respectfully

Robt Peter

(Prof-Dr)

Thorough, 3
 Good, 2.5
 Indifferent, 1.5
 Bad, 1
 Failure, 0

June 1886

A. & M. COLLEGE.

CLASS; DEPARTMENT OF

Elementary Chemistry
(Examination)

REPORT FOR THE WEEK ENDING, *Final Result* 1886.

SCALE OF DAILY MERIT.

Examination

MAXIMUM FOR THE WEEK

15

Result for the Term

No.	NAMES.	M.	T.	W.	Th.	F.	TOTAL.	REMARKS.
1	Amus J.W.	2.5			10.		12.3	
2	Berry B.D.	2.5			5.		10.	
3	Berry Henry	2.5			13.2		12.6	
4	Baker Bertha	2.5			7.2		11.	
5	Bryan R.M.	2.5			12.5		11.5	
6	Culhoun C.C.	2.5			11.5		12.5	
7	Cassell R.L.	2.			10		10.2	
8	Curtis Susie	2.5			13.3		13.3	
9	Cheek Blanch	2.5			7.		8.2	
10	De Courcy J.O.	2.5			9.2		10.6	
11	Denny J.A.	2.5			12.6		12.7	
12	Denny W.B.	2.5			14.		13.1	
13	Dolan J.H.	2.5			12.5		12.4	
14	Forsten R.R.	2.5			12.5		12.1	
15	Gunn J.W.	3.			15.		14.3	
16	Gibson C.G.	2.5			12.5		11.3	
17	McCawley J.W.	2.5			11.		11.2	
18	McKinley B.F.						a	
19	Oldham J.E.	2.5			12.5		12.1	
20	O'Connor J.A.	1.5			7.5		9.8	
21	Payne R.F.	2.5			10.3		11.5	
22	Peters J.M.						a	
23	Phelps E.M.	1.5			7.5		11.	
24	Putman Elie	2.			10.3		11.3	
25	Stephens R.L.	2.5			12.5		12.6	
26	Thomas S.B.	2.			9.3		10.8	
27	Weddington B.						a	
28	Witt O.W.	2.5			8.2		10.4	
29	Word J.W.	1.5			8.		10.	
30								

27
State College of Kentucky 2 inches 2 month, and

notice one time
Page 21 S. Sem. nth June 14th

Butchison
Ashland
Augusta

Bardonia
Bowling Green

Burlington
Beattyville

Calhoun
Carlisle

Cloverport
Columbia

Cynthiana
Central City

Cattlettsburg
Garrington

Danville
Dyersburg

Emmeline
Elizabethtown

Franklin
Hulton

Hafmouth
Glasgow

Greenville
Hazel Green

Hickman
Hartford

Hopkinsville
Lawrenceburg

Lebanon
Lexington

Landon
Louisville

Ry. Herald
Independence

Bulletin
Chronicle

Record
Democrat

Recorder
Enterprise

Democrat
Mercury

News
Spectator

News
Republican

Methodist 4 1/2 E.O.N.
Apostolic Guide

Advocate
Gambier

Constitutionalist
News

Favorite
Hultonian

Democrat
Times

Echo
Herald

Gambier
Herald

News Era
News

Standard Times
News

Wb. Echo
Express

Commercial 1 mi 2 mo
Gambier Journal 1 mi 2 mo

2nd Aug
June 17.24 July 1.8.15.22.29 Aug 5.12.19

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 17.24 July 1.8.15.22.29 Aug 5.12.19

July 8.15.22.29 Aug 5.12.19 26.2.19

June 26 July 31.0.17.24.31 Aug 7.14.21

June 16.23.30 July 7.14.21.28 Aug 4.11.18

June 25 July 29.16.23.30 Aug 6.13.20

Nil
June 17.24 July 1.8.15.22.29 Aug 5.12.19

July 14.21.28 Aug 4.11.18.25 Sept. 1

July 14.21.28 Aug 4.11.18.25

June 17.24 July 1.8.15.22.29 Aug 5.12.19

July 8.15.22.29 Aug 5.12.19 26.2.19

June 26 July 10.24 Aug 14

June 18 July 7.16.30

July 9.16.23.30 Aug 6.13.20 27

July 24.31

June 17.24 July 1.8.15.22.29 Aug 5.12.19

June 19.26 July 31.0.17.24.31 Aug 7.14.21

Aug 12.19.26 Sept 2.9.16.23.30

June 23.30 July 7.14.21.28 Aug 4.11.18

Nil
July 7.14.21.28 Aug 4.11.18.25 Sept. 1

June 24 July 1.8.15.22.29 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

July 9.16.23.30 Aug 6.13.20 27 Sept. 1.10.17

June 30 July 7.14.21.28 Aug 4.11.18

July 2.9.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July 7.14.21.28 Aug 4.11.18

June 19.26 July 31.0.17.24.31 Aug 7.14.21

June 25 July 29.16.23.30 Aug 6.13.20

June 17.24 July 1.8.22 Aug 5.12.19

June 23.30 July

Mayfield	Ky	Democrat	July 18 52 24 25 Aug 5 12 19 ✓
Maysville		Monitor	June 23 30 July 7 14 21 28 Aug 4 11 ✓
Morgantown		Eagle	June 23 30 July 7 14 21 28 Aug 4 11 ✓
Milton		News	June 24 July 18 52 24 25 Aug 5 12 19 ✓
Mr. Olcott		Free Press	June 17 24 July 18 52 24 25 Aug 5 12 19 ✓
Murray		Tribune	June 17 24 July 18 52 24 25 Aug 5 ✓
Owensboro		News	June 24 July 18 52 24 25 Aug 5 12 19 ✓
		Inquirer	July 30 Aug 6 13 20 27 Sept 3 10 24 Oct 10 29 ✓
Owenton		Messenger & Examiner	July 14 21 28 Aug 4 11 18 25 Sept 1 8 15 ✓
Paducah		News	June 16 23 30 July 7 14 21 28 Aug 4 11 ✓
		News	June 23 30 July 7 14 21 28 Aug 4 11 ✓
Paris		Standard	June 18 25 July 29 16 23 30 Aug 6 13 ✓
		West Citizen	June 22 July 6 13 20 27 Aug 3 10 17 24 ✓
		True Kentuckian	June 16 23 30 July 7 14 21 28 Aug 4 11 18 ✓
Princeton		Banner	June 17 24 July 18 52 24 25 Aug 5 12 19 ✓
Richmond		Register	June 18 25 July 29 16 23 30 Aug 6 13 ✓
Russellville		Special Enterprise	June 23 30 July 7 14 21 28 Aug 4 11 18 ✓
Shelbyville		Sentinel	June 17 24 July 18 52 24 25 Aug 5 12 ✓
Somerses		Reporter	June 17 24 July 18 52 24 25 Aug 5 12 ✓
Stanford		Interior Journal	July 27 30 Aug 3 7 10 13 17 20 ✓
Taylorville		Carrier	June 18 25 July 29 16 23 30 Aug 7 14 ✓
Vanderburg		Carrier	June 16 23 30 July 7 14 21 28 Aug 5 12 ✓
Versailles		Woodford Sun	June 18 25 July 29 ✓
Whitesburg		Sunbeam	til ✓
West Liberty		Whig Scourer	June 23 30 July 7 14 21 28 Aug 4 11 ✓
Winchester		Sun	June 22 29 July 6 13 20 27 Aug 3 10 17 ✓
		Democrat	June 23 30 July 7 14 21 28 Aug 4 11 ✓
Carrollton		Democrat	June 19 26 July 31 07 24 31 Aug 7 ✓
Dixon		Record	July 18 52 24 25 Aug 5 12 19 ✓
Williamstown		Courier	July 17 24 July 18 52 24 25 Aug 5 12 ✓

1886

Mechanical Drawing Studies,

Prepared by William H. Thorne, Director of the Drawing
School of the

Franklin Institute of Philadelphia.

Published by

Williams & Brown,

Tenth and Chestnut Streets, Philadelphia.

Copyrighted by Wm. H. THORNE, 1886

COMPRISING PROGRESSIVE SERIES OF BLUE PRINTS FROM DRAWINGS, MADE ESPECIALLY FOR THE
USE OF SCHOOLS AND COLLEGES.

SERIES I. PLANE GEOMETRY.

Plate 1	Six Problems.
" 2	" "
" 3	" "
" 4	Four " pertaining to the Ellipse
" 5	Two " " to Circles
" 6	" " " "
" 7	Exercises in lining.
" 8	" " " "
" 9	Two Problems pertaining to the Parabola
" 10	" " " " " "
" 11	" " " " " "
" 12	" " " " " "
" 13	The Circle and its parts,

Plate 14	Functions of the Circle
" 15	The Hyperbola,
" 16	" "
" 17	Rectification of Arcs,
" 18	Arcs and right lines
" 19	Spiral of Archimedes and Logarithmic Spiral.
" 20	Letters and Figures
" 21	The Involute
" 22	" Cycloid
" 23	" Epicycloid and Hypocycloid
" 24	" " " "

Price of each Plate in Series I, 15 Cents.

Series I complete, \$2 25

SERIES II. ELEMENTARY PROJECTIONS

of Simple Solids giving three views of each located in accordance with the best modern practice.

Plate 29	Rectangular Prism
" 30	Triangular " "
" 31	" Pyramid
" 32	Hexagonal " "
" 33	Hollow Triangular Prism with beveled ends

Plate 34	Ditto, cut to show interior
" 35	Ditto, rotated in plan
" 36	Ditto, rotated in plan and cut.

Price of each Plate in Series II, 15 cents.

Series II complete, 75 cents.

SERIES III. ADVANCED PROJECTIONS

OF LINES, PLANES, SURFACES AND SOLIDS, COMPRISING A PRACTICAL DESCRIPTIVE GEOMETRY.

In all projections the third angle is used exclusively.

- Plate 41 The Planes of Projection
 " 42 The projections of lines
 " 43 " " of a Triangle lying on an inclined plane
 " 44 To find the true size of a Triangle lying on an inclined plane
 " 45 To find the true length of an oblique line by projection
 " 46 Projections of a line on an Oblique Plane
 " 47 To find the true length of a Line on an Oblique Plane, by projection
 " 48 To find the true length of a Line on an Oblique Plane, by rotation
 " 49 Projections of a solid lying parallel with both the horizontal and vertical planes
 " 50 Projections of a solid lying parallel with the horizontal, but at an angle with the vertical plane
 " 51 Projections of a solid lying on an oblique plane
 " 52 Projections of an Hexagon lying on an oblique plane

- Plate 53 Exercises. Prisms to be projected as directed
 " 54 Exercises. Pyramids to be projected as directed.
 " 55 Exercises. Truncated Pyramids to be projected as directed.
 " 56 Exercises. Cylinders and Cones to be projected as directed
 " 57 Projections of the intersection of a vertical and a horizontal Hexagonal Prism,
 " 58 Projections of the intersection of a vertical and an inclined Prism
 " 59 Projections of the intersection of a vertical Pyramid and a horizontal Prism
 " 60 Projections of the intersection of a vertical Pyramid and an inclined Prism.
 " 61 Projections and developement of a Cylinder cut obliquely
 " 62 Projections of a Cone cut vertically.
 " 63 " " " " parallel to 1 side
 " 64 Projections and developement of a Cone truncated obliquely.

Price of each Plate in Series III, 15 cents.

Series III complete, \$2 25

SERIES IV. WORKING DRAWINGS.

Made to scale, with dimensions, cross-sections, centre-lines and all the technicalities employed in the best draughting offices.

- Plate 69 Technicalities of lines and cross sections
 " 70 Shapes of structural Iron
 " 71 Riveted Joints
 " 72 Kinds of Bolts and methods of bolting
 " 73 Projection and developement of the Helix or Screw-thread
 " 74 Projection of Square Thread Screw and Nut in section
 " 75 Projection of double Square Thread Screw and Nut in section.
 " 76 Franklin Institute Standard Bolt and Nut, giving proportions.
 " 77 Involute Gear Teeth
 " 78 Approximate Involute Gear Teeth
 " 79 Cycloidal Gear Teeth
 " 80 Approximate Cycloidal Gear Teeth
 " 81 Connecting Rod, $\frac{1}{2}$ size.

- Plate 82 4 in. Stop Valve, $\frac{1}{2}$ size, and $1\frac{1}{2}$ in. Globe Valve, full size
 " 83 Worm and Wheel, full size,
 " 84 30 in. vertical Drilling Machine $\frac{1}{8}$ size.
 " 85 5 Ton Pillar Crane
 " 86 5 " " " } Set
 " 87 5 " " " }
 " 88 6 x 8 in. Hor. Engine, Steam Cylin'd'r }
 " 89 6 x 8 " " " Bed and Details } Set
 " 90 6 x 8 " " " Governor and Connecting Rods }
 " 91 6 x 8 in. Vertical Engine }
 " 92 Steam Pump with Fly Wheel } Set
 " 93 " " " " }
 " 94 Duplex Steam Pump, $\frac{1}{2}$ size
 " 95 Propeller Wheel, 12 ft. pitch, $\frac{1}{4}$ size.
 " 96 Bevel Wheel and Pinion

Price of Plates, 69 to 80 inclusive, 15 each.

Price of Series IV. complete, \$6 50

Price of Plates 81 to 96 inclusive, each 40 cents.

Price of the 4 Series complete, \$11.50

PUBLISHED BY WILLIAMS & BROWN,

TENTH AND CHESTNUT STS., PHILAD'A.

Dealers in Engineering and Draughting Supplies of every description.

CATALOGUE SENT ON APPLICATION.

^{1.}
Normal Department. [1886]

Pupils doing Normal Work.

Carson, M. L.
Gilbert, E. de
~~Ingram, M. L.~~
Jacobs, L.
Jackson, J. S.
Lanthen, Ida
Rimsey, M. A.
Rimsey, M. E.
Throckmorton, M.
Young, Emma
Young, Mary

Pupils taking one or more studies in
other departments.

Scovell, Ada
Scovell, Frank
Bevins, O. D.
Ingram, M. L.

2.

Pupils of the Normal Dept. doing work
in the Preparatory Dept

Aubry, Saccidun

Burton, B. L.

Clugston, Elia

Fitzgerald, John E.

Hunt, Irene L.

Jackson, Thomas L.

Ready, Miss

⁴
Fannie Mitchell Day is doing work
in the College.

47-M-64

Prof. Brandell feels that he has virtually been censured by the Faculty, hence he does not take any part in general discipline.

- 1886.
- [1886]
1. What Department have you in charge?
 2. How many classes do you hear each day?
 3. What subjects are taught in each class?
 4. How many pupils in each class?
 5. How long is each recitation?
 6. What is the conduct and discipline of your pupils?
 7. To what extent do you cooperate in the maintenance of discipline?
 8. To what extent do you succeed in instructing your pupils?
 9. How are you satisfied with the result of your work?
 10. What is necessary in your opinion to produce more satisfactory results?
 11. Explain your method of class instruction.
 12. Do you attend the Chapel exercises as required by the Regulations?

Thorough,..... 3
 Good,..... 2.5
 Indifferent,..... 1.5
 Bad,..... 1
 Failure,..... 0

C4

A. & M. COLLEGE.

CLASS; DEPARTMENT OF

REPORT FOR THE WEEK ENDING 188

SCALE OF DAILY MERIT.

MAXIMUM FOR THE WEEK. 15.

No.	NAMES.	M.	T.	W.	Th.	F.	Total.	REMARKS.
1	Mr. Petis							
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

Mr. Petis
 Capt. - Secretary

7-11-64

Elementary Experimental Physics
and Elementary and Practical Chemistry

- 2 - I lecture daily giving experiments which frequently require several hours of preparation and my son Alfred M. Peter ^{meets} accommodates the several classes in Practical Chemistry from ^{10 or} 11 to 3 or 4⁰ Clock - devoting 4 to 5 hours each day. He being compensated by me.
- 3 Experimental Physics. Elementary and applied Chemistry. Qualitative and Quantitative Chemical Analysis.
4. Forty to Fifty in the classes attending my daily lectures. Ten or twelve in Practical Chemistry.
5. One hour in the Lecture Room, four to five in the Practical work.
6. With a few exceptional cases, the conduct & Discipline are good.
7. To the best of my judgement & ability.
8. As well as may be expected from the previous training of my students.
9. No teacher is ever fully satisfied with the result of his work in large classes.
10. To answer this would require ^{more} time than can now be given.
11. Daily Lecture illustrated as far as possible by experiments - and actual manipulation by the students themselves in the Practical Department.
12. I attend Chapel whenever I can reach the college in time.

[1886]

Questions submitted by Mr Bird

- (1) Botany, Zoology, Vet Science, Qual Analysis. Quant Analysis, Organic Chemistry, Agricultural Chemistry.
- (2) I teach Vet Science myself, therefore cannot answer the question.

(3) The advantages to us, that a farm presents are so many & of such importance, that I consider it by far the most pressing need of the College. It would enable us to render the work of the Agricultural Dept complete, for it is undeniable that by the systematic use of an experimental farm, practical students may be certain that they will learn more of the true principles of agricultural production than can be gathered from any books; and when they have adopted the system they will acknowledge that agriculture ceases to be an art given over to the uncertainties of empiricism, but is raised to the rank of a true science, whose theoretical principles answer all the requirements of practice. The more I prosecute these studies the more I am convinced that a complete revolution in the traditions that the practical agriculture of the past has handed down to us is on the eve of being accomplished; and this revolution we ought to forward with all our might, since it is destined to secure profit to private individuals and prosperity to the State by providing a large class of our fellow-men who live by manual labor with a more wholesome ~~subject~~ subsistence upon less onerous terms.

Agricultural Dept Report

- (1) Agriculture
- (2) Four regular, one extra in the 2nd term.
- (3) Two classes in Botany, one in each of the following, Qual Analysis, Quant Analysis, Zoology, Organic Chemistry, Agricultural Chemistry, Agriculture, Horticulture, Vet Science.
- (4) Botany 23, Botany 11, Qual Analysis 3, Quant Analysis 1, Organic Chemistry 2, Agricultural Chemistry 2, Vet Science 1, Zoology 20, Agriculture & Horticulture 0. This last class, has by the new schedule recently adopted, been put in the senior year, it has therefore cut off students this year.
- (5) Botany, Zoology, Vet Science, Org Chem, Agr Chem, 5 hours per week
Qual Analysis Quant Analysis 10 hours per week.
Zoology, Vet Science, Org Chem, Qual Analysis 1st Term.
Botany, Botany, Agr Chem Vet Science, Qual & Quant Anal, 2nd Term.
- (6) Very good.
- (7) Harmony of interest with the College Faculty

- (8) There seems to be considerable interest manifested by the students. I judge by the facts that I very seldom see any yawning in my classes & that my students stay with me, continually ask me questions that could only occur to them if they did considerable thinking on the subjects outside of the class room this last fact I consider of importance
- (9) No I am not satisfied with the work my Dept is at present doing, we have not got all that is necessary to render it perfect. The students do very well with what we have but could undoubtedly do better if we had what I give in answer to Question 10
- (10) A Farm, additional specimens for the museum
a little more apparatus,
- (11) By lectures, recitations and practical work
- (12) occasionally.

47-M-64

Thorough.....	3
Good.....	2.5
Indifferent.....	1.5
Bad.....	1
Failure.....	0

A. & M. COLLEGE.

CLASS; DEPARTMENT OF _____

REPORT FOR THE WEEK ENDING _____, 188_____

SCALE OF DAILY MERIT.

| MAXIMUM FOR THE WEEK. 15.

No.	NAMES.	M.	T.	W.	Th.	F.	Total.	REMARKS.
1	Prof. Maurice Kirby - A. M.							
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

No. 1 Normal dept.

" 2^d From soon will teach five.

" 3^d Eng. Gram. Arithmetic, Men. Phil & Pol. Economy -
 2 8 3 2 7

" 5. One hour.

" 6th Conduct generally good.

" 7th As a member, when my turn comes, of the board of discipline & also as a member of the Faculty, when cases come before it for their consideration -

8th I succeed to a quite considerable degree.

9th Lasting all the things into ~~an~~ account the result are in the main gratifying

10th Unity of purpose.

11th ~~Efficiency~~

12th I do not reason excessive lameness caused by rheumatism etc.

2 8
 3 2
 7
 1 2
 7 9

W R Crandall

[1886]

1st Natural History also Director Practical Mechanics

2nd. ~~First~~ ^{Qual. & Qual. (4)} Drawing (5) History (6) ⁽⁶⁾ Prac Mech (6) Drawing (2)

3rd Drawing (two divisions or practically two classes) Zoology - ~~Advanced & advanced~~ ^{Advanced & advanced} Botany or Histology, Applied Mechanics.

4. Drawing 10, Zoology 5, Histology 5, Prac Mech 6. ~~Advanced & advanced~~

5. One hour each day ^{for Qual. & Histology} applied Mech 4 hrs per week, Drawing 3 to 4 hrs per week, Advanced Qual 2 to 4 hrs per week (Mech Drawing also per week)

6th miscellaneous

7. I keep good discipline in my own department.

8. Not so fully as ought to be for sound of application

9. Not well satisfied on the whole

10. ^{What is means for communicating results} To be answered at length

11. ^{What methods do you use to attract and interest your classes} To be answered at length

12. only part of the time

13.

47-M-64

Thorough,..... 3
 Good,..... 2.5
 Indifferent,..... 1.5
 Bad,..... 1
 Failure,..... 0

A. & M. COLLEGE.

CLASS; DEPARTMENT OF _____

REPORT FOR THE WEEK ENDING _____, 188_____

SCALE OF DAILY MERIT. | MAXIMUM FOR THE WEEK. 15.

No.	NAMES.	M.	T.	W.	Th.	F.	Total.	REMARKS.
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16	X							
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27	T							
28								
29								
30								

Lexington Ky, May 18th, 1887.

Dr. James K. Patterson, President of the State College of Ky.
Dear Sir

I submit the following report of my department in the State College of Kentucky for the year 1886-1887.

The number of students in my Preparatory Freshman Class was thirty six.

The class studied Quackenbush, Rhetoric and Graham's Synonyms, and had frequent exercises in composition and parsing. They made fair progress; and some of them studied with commendable diligence.

My Freshman Class numbered thirty three.

The text book used by this class was Swinton's "Studies in English Literature."

It is not claiming too much for several students in this class to report that they

developed not only an elevated literary taste, but some literary skill, as evinced in their essays on some very interesting themes discussed in the course of the year.

My Junior Class numbered ten.

They studied with great diligence "Sir William Hamilton's Lectures on Logic" and "Shaw's Manual of English Literature"

In addition to these studies we had many class readings from Shakespeare, Milton, Burke, and Bacon. I have found these class readings the most stimulating and interesting of all literary exercises.

The session has been to me a very pleasant one, and I trust not unprofitable to the young people committed to our charge.

Thanking you for your constant courtesy and kindness, I am Yours truly, John Shackelford, ~~Prof. Eng.~~

1.

Normal Department,
A. and M. College,
Lexington, Kentucky,
May 31, 1887.

Pres. J. K. Patterson,
A. and M. College,
Lexington, Kentucky.

Sir: I have the honor to submit the following report for the year ending June 2, 1887.

Number of
Students

The following tabular view will show the number of students enrolled and their distribution in classes

Classes.	No. Enrolled.	^{Term} Dropped during	Passed Ex.
Pedagogics { Mental Science.	16.	5	9.
{ Methods of Teaching.	13.	2	10.
Civil Government.	12.		8.
Rhetoric.	16.	3.	6.
Grammar.	18.	2.	14.
School Economy.	18.	2.	13.
English Literature.	10.		7.
Geometry.	13.	3.	10.
Spelling.	16.	4.	10.

Work of Classes.

1. In Pedagogics.

The subject is divided into the Elements of Psychology, the Principles of Education derived from the study of the former, and the Methods of Teaching. Attention was given to ^{the} laws of development and growth, and the methods of training the Intellect, Sensibilities and the Will.

Pupils were required to derive the definitions and principles, by an appeal to their own experience and observation. After that they were required to teach the same to their fellow students.

What paper?

The class subscribed for an educational paper which they read with much profit during the year.

2. See Civil Government.
What paper?

In this class the forms of government were studied: the forms of colonial government: the Articles of Confederation: the history of the formation of the Constitution: and the departments of our national government. The methods of choosing Representatives, Senators, the President and Vice President were carefully examined; and also the ways in which a bill may originate and become a law.

A semi-monthly paper furnished the pupils of the Department a history of the leading events in the world, to illustrate the subjects they were studying.

3. See Rhetoric.

The use of words, the sentence, the paragraph, and theme were studied and illustrated. Themes were presented ^{by the pupils} monthly and read before the class. The qualities of style, figures of speech, kinds of discourse, with illustrations of each received attention.

4. In Gram-
mar.

Letter writing received special attention. Pupils were required to give teaching-exercises, and to conduct the reviews subject to criticism of the class and the Professor. Particular attention was given to analysis and the construction of the sentence.

5. In School
Economy.

The pupils studied the topics, school sites, school grounds, school-houses including heating, ventilation and lighting, school employment (study, recitation and exercise) preparation of the pupil and teacher for the recitation, the teacher's qualifications, and the duties of school officers and patrons.

6. In English
Literature

The leading events of the history of the period were noted: a sketch of each author was required; and selections from some of the chief works were carefully studied. Criticism of the style and words used, the explanation of figurative language and causion in poetry, were leading features of this work. In this study pupils were required to give attention to reading, the vocal expression being the evidence of a clear comprehension of the thought.

7. In Ge-
ometry.

Three or four weeks were devoted

to teaching exercises. (By the teaching exercise I do not mean that the pupil-teacher tells his class the definitions and facts, but with the objects or illustrations before the class, the pupil-teacher directs the attention of the class to the objects or illustrations, so that the class observes the facts; then the pupil-teacher by appropriate questions leads the class to state the definitions and principles illustrated, in their own language.)

Pupils were required to teach the forms, definitions and principles of this science. The remaining time was devoted to the demonstrations of theorems, and the original solution of practical problems. The pupils found original illustrations of forms and constructed apparatus to illustrate certain definitions and principles.

S. S. Spelling.

During a large part of the year daily lessons in spelling were given. The oral and written methods were combined. Words of every-day use were chosen; and pupils were required to show their comprehension of their meaning by correct use of them.

in sentences.

Average
Standing.

I call especial attention to the average standing of Misses M. L. Ingram, E. M. Gilbert, Ada Scovell, and M. L. Benson.

Lack of
preparation.

The majority of the students in my Department failed to do satisfactory work because of the lack of preparation when they entered the Department.

Number of
Studies.

By a rule of the college, students are required to have four studies, unless excused. Most pupils can do only superficial work with so many studies. Generally the fourth study is poorly prepared.

Industry of
Students.

The students in my classes have been, for the most part, industrious and attentive. The order has been good in the class-room.

Working
fund.

Early in the year the Executive Board appropriated a working fund of \$150.00 for the Department. Books of reference (68 vols.) a Fitz Globe and a set of Camp's Antiquarian Maps have been secured.

For financial statement, see the accompanying account with vouchers.

Recom-
mendations
1. Fund.

1. Many books and charts are necessary for fully illustrating methods of teaching. I recommend

that \$200.00 be appropriated to the Department for the coming year.

2. Courses of Instruction.

The Course of Study as published in our catalogue neither indicates fully the amount of work, nor the time required.

I recommend the following Courses of Instruction.

1. English Course.

I. Two Years Course.

First Term. First Year.

Geography.

Arithmetic.

Grammar.

Physics.

Second Term.

Chemistry.

Eng. Grammar.

Arithmetic.

Geography.

Second Year.

Algebra or Physical Geography.

History of United States.

Pedagogy.

Physiology.

Algebra or Botany.

Pedagogy.

School Economy.

Civil Government.

II. Intermediate Course.

First Year.

Latin Grammar.

Eng. Grammar.

Arithmetic.

Geography.

Latin. (Continued.)

Eng. Grammar.

Geography.

Arithmetic.

Second Year.

Greek and Latin Grammar.

U. S. History.

Physics.

Algebra.

Chemistry.

Virgil.

History of England.

Algebra.

First Term.	Third Year.	Second Term.
Psychology in its relations to Education.	History of Education.	Methods.
Physiology.	Botany.	
Civil Government	Political Economy.	
Plane Geometry.	School Economy.	

III. Advanced Course.

First Year.
Freshman Year.

English.
Mathematics.
Physics.
Latin.

English.
Chemistry.
Mathematics.
Latin.

Sophomore Year.

Mathematics.
German.
Latin.

Mathematics.
German.
Latin.
School Economy.

Civil Government

Junior Year.

German.
English.
Psychology.
Anatomy and Physiology.

German.
Psychology.
English.
Botany.

Senior Year.

History of Education.
History.
Geology.
Mathematics.
or
Practical Chemistry.

Pedagogy.
History and Political
Economy.
Geology.
Astronomy.

Equivalent Scientific studies may be substituted for some of the above. I recommend that certificates be granted, in the future, to those only, who have completed Courses I or II.; and that a diploma be granted to those who complete the Advanced Course. *

Respectfully submitting the above report and recommendations, I am, Sir, your obedient servant,
J. R. Potter

Teachers in Preparatory Work. * As the work of the Preparatory Department is so important in connection with this Department, as well as all other departments of the College, I recommend that only teachers of a successful experience, or persons that have taken a professional Course, be employed to give instruction.

47 N. 47
Annual Re-
port of the
Normal De-
partment for the
year ending
June 2, 1887.

We see no ground
to make any change
in the plan and
scope already
adopted for the nor-
mal department.

A & M. College
Lexington Ky. May 31st 1887

Prof. Jas. H. Patterson
President A & M. College.

Dear Sir,

I have the honour to submit herewith report
of the Classes under my charge during the
School-year 18th/87. There were in attendance
55 students, 26 of whom were girls. They were
divided in the different Classes, as follows

Elementary German	14 boys	16 girls.	
Junior German	11 "	2 "	
* Senior German	1 "	2 "	(not required.)
Elementary French	3	2 "	
Junior French	"	4 "	
	29	26	= 55.

There has been no change in Text books and none is recommended. The progress made has been satisfactory in the main, although the unnecessary crowding in the Elementary German Class has caused more failures than usual. I would again recommend that as few as possible from the Preparatory Department be sent to my classes.

Very Respectfully
your obed^t servant
J. M. Ebbels
Prof. German & French.

Leディングton, Ky. May 31. 1887.
To the Board of Trustees, A. M. College,

The Committee Appointed to ^{consider} ~~report~~
~~for~~ the Reports of the President and of
the several Professors in the College,
have the honor to state that they
have examined the ^{papers} ~~reports~~ placed
in their hands with the following
conclusions:

The reports indicate generally
a rather satisfactory condition of
the different Departments. They
show in some cases a little want
of authoritative action in the ar-
rangement of sections and the pro-
curement of studies; and a want
of a correct understanding and
application of the regulations in
regard to recitation marks in de-
termining the class standing at the
end of the year. We have not
time to refer to these questions in
detail. We can only indicate them
^{here} in this general way, and on the
reports themselves we have in some
cases noted them more particularly.

47-M-604
J. H. Davidson.

Chas. Seelbach.



Louisville Lith. Co. Louisville, Ky.

Phoenix Hotel

Davidson & Seelbach
Proprietors.

Lexington, Ky.

1887

2

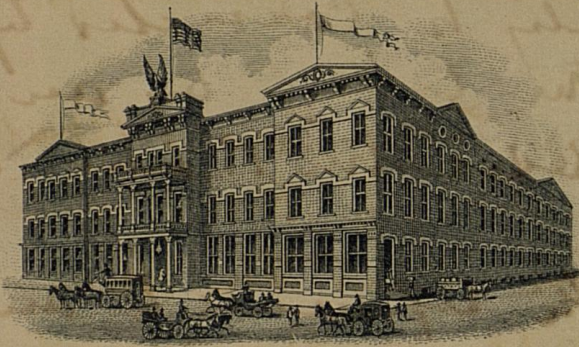
They are appropriate matters that may readily and properly be considered by the President of the College by an intimation of the Executive Board if necessary.

Generally, with reference to an increase of salaries, while we cheerfully recognize the merits of the professors who have asked it, we deem it our duty to suggest that the College is not now in a condition to undertake the increase practicable. The same may be said with reference to expenditures that would be necessary to carry out the recommendations made by some of the professors for increasing the efficiency of their departments.

It is stated that "at a very small additional outlay" a school of Pharmacy could be established, with great advantage to the College. On that condition, of the accuracy of which we have not had time or opportunity to inform ourselves, we recommend that authority be granted to the Executive Board to adopt the

47-M-64
J. H. Davidson.

Chas. Seelbach.



Phoenix Hotel

Davidson & Seelbach
Proprietors.

Lexington, Ky.

1887

measure, if it shall be found advisable.

We recommend the Consolidation of the Departments of Prof. Peter and Prof. Menck, and the transfer of some or all of the functions of the Agricultural Department not pertaining to the Chemical Department proper, to the charge of Professor Scoville.

In this arrangement the Committee deem it necessary to dispense respectfully with the services of Prof. Peter, who as a Chemist in various important positions, has had a long and distinguished career, not often equalled by none and ~~not often~~ ^{equally} ~~equally~~ ^{very} ~~equally~~ ^{honored} and ~~equally~~ ^{valued} ~~equally~~ ^{respected}.

Respectfully Submitted,

D. C. Bull

Chairman.

47-M-64
J. H. Davidson.

Chas. Seelbach.



Louisville Lith. Co. Louisville, Ky.

Phoenix Hotel

Davidson & Seelbach

Proprietors.

Lexington, Ky.

1887

(B)

COVINGTON PUBLIC SCHOOLS.

Monthly Report of

For the Month of

1887

Days Absent

Times Tardy

	M'y Record.	Examination
Practical Arithmetic	100	
Mental Arithmetic.....	98	
U. S. History	97	
English Grammar.....	86	
Geography.....	98	
Spelling.....	100	
Definitions		
Reading.....	87	
Penmanship		
Composition		
Conduct....		
Drawing		
Average.....	95.7	

Standing No.

in Class of

APPROVED :

EXAMINED :

Teacher.

Parent.

Remarks :

EXPLANATION--100 denotes Perfect. 75 Passable. 50 Failure.

3
- 2.5
- 1.5
- 1
- 0

A. & M. COLLEGE.

School Economy CLASS. DEPARTMENT OF Normal Instruction.

Report for the ~~Week~~ Term Ending June 2, 1887.

SCALE OF DAILY MERIT.

1 MAXIMUM FOR THE WEEK, 15.

No.	NAMES.	M.	T.	W.	Th.	F.	TOTAL.	REMARKS.
1	Brown, P. D.							Did not complete.
2	Carson, M. E.						14.9	
3	Gilbert, E. H.						14.9	
4	Jackson, J. I.						10.3	
5	Jacobs, E.						12.9	
6	Louther, Ida						12.8	
7	Rennay, M. A.						10.3	
8	Rennay, M. E.						8.6	
9	Schmidt, M. E.							" " "
10	Shockenorton, M.						12.9	
11	Young, Emma						11.7	
12	Young, Mary						11.8	
13								
14	Class organized at beginning of Second Term.							
15	Averitt, J. G.						13.8	
16	Brown, Robert						14.5	
17	Calvert, Ben						13.7	
18	Forston, K. R.						14.4	
19	Pige, H. S.						15	
20	Scovell, Frank						14.5	
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

J. R. Potter

Thorough, - - - 3
 Good, - - - 2.5
 Indifferent, - - - 1.5
 Bad, - - - 1
 Failure, - - - 0

A. & M. COLLEGE.

Geometry CLASS. DEPARTMENT OF *Normal Instruction*

Report for the ~~Week~~ *Term* Ending *June 2,* 1887.

SCALE OF DAILY MERIT.

MAXIMUM FOR THE WEEK, 15.

No.	NAMES.	M.	T.	W.	Th.	F.	TOTAL.	REMARKS.
1	Casson, M. L.						14.9	
2	Gilbert, E. M.						14.95	
3	Ingram, M. L.						15	
4	Jacobs, L.						13.9	
5	Throckmorton, M.						14.1	
6	Young, Emma						14.1	
7	Young, Mary						13.1	
8	Rumsey, M. A.							Did not complete.
9	Rumsey, M. E.							" " "
10	Loultun, Ida							" " "
11	Averitt, T. G.						13	
12	Jackson, J. I.						14.1	
13	Scovell, Frank						14.7	
14								<i>Rhetoric</i>
15	Averitt, T. G.							Did not complete
16	Casson, M. L.			15			14.5	
17	Gilbert, E. M.			14.7			14.3	
18	Ingram, M. L.							" " "
19	Jackson, J. I.			9.4			8.9	
20	Jacobs, L.			14.3			10.9	
21	Loultun, Ida			14.5			10.0	
22	Rumsey, M. A.			14.1			8.8	
23	Rumsey, M. E.			14.1			7.3	
24	Scovell, Ada							Did not complete
25	Scovell, Frank			13			12	
26	Throckmorton, M.			14.4			11.6	
27	Yates, J. H.							" " "
28	Young, Emma			14.1			12.1	
29	Young, Mary			14.4			11.4	
30								

J. R. Potter.

Thorough, - - - 3
 Good, - - - 2.5
 Indifferent, - - - 1.5
 Bad, - - - 1
 Failure, - - - 0

A. & M. COLLEGE.

Civil Government CLASS. DEPARTMENT OF Normal Instruction

Report for the Term Week Ending June 2, 1887

SCALE OF DAILY MERIT.

Term Average MAXIMUM FOR THE WEEK, 15.

No.	NAMES.	M.	T.	W.	Th.	F.	TOTAL.	REMARKS.
1	Casson, M. D.						14.7	The class spent ten weeks in this study.
2	Gilbert, E. M.						14.5	
3	Ingram, M. L.						14.9	
4	Jackson, J. F.						12.8	
5	Jacobs, L.						10.9	
6	Louthan, Ida						12.25	
7	Rumsey, M. A.						11.5	
8	Rumsey, M. E.						7.1	
9	Scovell, Frank						13.3	
10	Throckmorton, M.						12.4	
11	Young, Emma						9.9	
12	Young, Mary						10.1	
13								
14								
15	English Literature.							This class began this
16	Casson, M. D.						14.5	study March 16, 1887.
17	Gilbert, E. M.						14.8	
18	Ingram, M. L.						14.9	
19	Jackson, J. F.						11.6	
20	Jacobs, L.						10.0	
21	Louthan, Ida							
22	Rumsey, M. A.						11.7	
23	Rumsey, M. E.						7.3	
24	Young, Emma						11.25	
25	Young, Mary						10.5	
26	Averette, J. G.						12.5	
27								
28								
29								
30								

J. R. Potter.

Thorough, - - - 3
 Good, - - - 2.5
 Indifferent, - - - 1.5
 Bad, - - - 1
 Failure, - - - 0

June 2, 1887

Pedagogical A. & M. COLLEGE.

Mental Science CLASS. DEPARTMENT OF Normal Instruction.

Report for the Week Ending 188

SCALE OF DAILY MERIT.

MAXIMUM FOR THE WEEK, 15.
Sum average -

No.	NAMES.	M.	T.	W.	Th.	F.	TOTAL.	REMARKS.
1	Brown, Robert							Present only a few days-
2	Carson, M. L.						14.6	
3	Silbert, E. M.						14.3	
4	Ingram, M. L.						14.9	
5	Jackson, J. I.						9.5	
6	Jacobs, L.						11.5	
7	Louthen, Ida						11.9	
8	Rumsey, M. A.						9.3	
9	Rumsey, M. E.						8.8	
10	Schmidt, M. E.							" " " few weeks.
11	Scovell, Ada						14.3	
12	Scovell, Frank						12.5	
13	Throckmorton, M.						11.8	
14	Yates, J. A.							Present only a few days-
15	Young, Emma						11.3	
16	Young, Mary						10.9	
17								
18	Methods of Teaching							
19	Brown, Robert						14.6	
20	Carson, M. L.						14.7	
21	Silbert, E. M.						15	
22	Ingram, M. L.						15	
23	Jackson, J. I.						11.5	
24	Jacobs, L.							Did not complete
25	Louthen, Ida							" " "
26	Rumsey, M. A.						11.5	
27	Rumsey, M. E.						4.3	
28	Scovell, Ada						14.97	
29	Scovell, Frank						14.4	
30	Throckmorton, M.						13.8	
	Yates, J. A.						14.93	

J. R. Potter.

Thorough, - - - 3
 Good, - - - 2.5
 Indifferent, - - - 1.5
 Bad, - - - 1
 Failure, - - - 0

A. & M. COLLEGE.

Grammar CLASS. DEPARTMENT OF Normal Instruction.

Report for the *Term* Week Ending *June 21* 1887

SCALE OF DAILY MERIT.

Sum Av. MAXIMUM FOR THE WEEK, 15.

No.	NAMES.	M.	T.	W.	Th.	F.	TOTAL.	REMARKS.
1	<i>Accitt, T. G</i>						<i>14.4</i>	
2	<i>Brown, Robert</i>						<i>14.2</i>	
3	<i>Calvert, Ben</i>						<i>12.5</i>	
4	<i>Carson, M. L.</i>						<i>14.7</i>	
5	<i>Dodds, S. L.</i>							<i>Did not complete</i>
6	<i>Dolan, T. F.</i>						<i>14.8</i>	
7	<i>Forston, K. R.</i>						<i>14.</i>	
8	<i>Gilbert, E. M.</i>						<i>14.9</i>	
9	<i>Jackman, J. I.</i>						<i>11.3</i>	
10	<i>Jacobs, L.</i>						<i>14.7</i>	
11	<i>Louthan, Ida</i>							<i>Did not complete</i>
12	<i>Page, W. S.</i>						<i>15</i>	
13	<i>Pinney, M. A.</i>						<i>10.8</i>	
14	<i>Pinney, M. E.</i>						<i>10.4</i>	
15	<i>Mockmorton, M.</i>						<i>14.3</i>	
16	<i>Scovell, Frank</i>						<i>13.7</i>	
17	<i>Young, Emma</i>						<i>14.3</i>	
18	<i>Young, Mary</i>						<i>13.9</i>	
19								
20								
21								<i>J. R. Potter.</i>
22								
23								
24								
25								
26								
27								
28								
29								
30								

Queso
This should be a
report for the whole
year. That is, it
should show the
sum of the daily
weights of each
student for the
year.

*At a meeting of the Faculty of Cornell
University held Thursday Evening, June 2,
the following persons were elected Fellows for
the year 1887-8 :*

E. H. SARGENT,

Science.

H. K. VEDDER,

Civil Engineering.

C. E. LINTHICUM,

Mathematics.

A. E. MENKE,

Chemistry.

H. E. MILLS,

History and Political Science.

A. G. NEWCOMER,

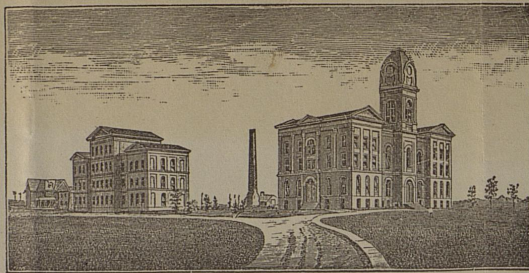
Classics.

ELIZA RITCHIE,

Philosophy.

H. M. SCHMIDT,

Romance Philology.



STATE COLLEGE OF KENTUCKY.

LEXINGTON, KY., JUNE 14 1887

Mr. Wm H Faulconer

Lexington, Ky

Dear Sir

The following report presents the average result of the examination and class standing of
Clarence S Faulconer for the Collegiate Year ending June 22, 1887

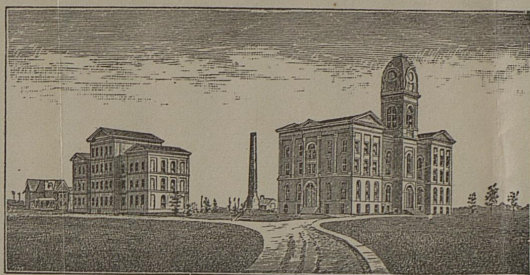
JAMES K. PATTERSON, President.

The highest mark attainable is 15 and the lowest that entitles a student to pass to a higher class is 11.25

DEPARTMENT OF CIVIL HISTORY:		DEPARTMENT OF NATURAL HISTORY:	
Junior		Anatomy, Physiology and Hygiene	
Senior		Botany	
DEPARTMENT OF ENGLISH:		Geology	
Rhetoric		Zoology	
English Literature.....		Histology	
Logic		Palaeontology	
History of English Literature		DEPARTMENT OF PHYSICS AND CHEMISTRY:	
Early English.....		Elementary Physics	
DEPARTMENT OF LATIN AND GREEK:		Elementary Chemistry.....	
1st year Latin.....	12.23	Organic Chemistry	
— year Greek.....		Agricultural Chemistry.....	
DEPARTMENT OF MODERN LANGUAGES:		Practical Chemistry	
— year German		NORMAL DEPARTMENT:	
— year French.....		Civil Government	
DEPARTMENT OF MATHEMATICS:		School Economy	
Algebra		Psychology	
Geometry.....		Methods of Teaching	
Trigonometry ..		MENTAL AND MORAL PHILOSOPHY.	
Surveying		POLITICAL ECONOMY.	
Calculus		BOOK-KEEPING.	
Mechanics		PRACTICAL MECHANICS.....	
Astronomy		DRAWING.	
		MILITARY TACTICS.	

PREPARATORY DEPARTMENT.

JUNIOR.		SENIOR.	
Algebra—Elementary	11.44	Algebra—Complete.....	
Arithmetic—Practical	12.7	Arithmetic—Higher	
English Grammar—Elementary		English Grammar—Advanced.....	10.09
Geography—Descriptive and Political.....		Outlines of History	
Elementary History		Physical Geography	
		Elementary Zoology ..	
		Elementary Botany.....	



STATE COLLEGE OF KENTUCKY.

LEXINGTON, KY, JUNE 14 1887

Mr. J. R. Redmon

Shir Karen, Ky

Dear Sir

The following report presents the average result of the examination and class standing of
J. R. Redmon for the Collegiate Year ending June 21, 1887

JAMES K. PATTERSON, President.

The highest mark attainable is 15 and the lowest that entitles a student to pass to a higher class is 11.25.

DEPARTMENT OF CIVIL HISTORY:	DEPARTMENT OF NATURAL HISTORY:
Junior	Anatomy, Physiology and Hygiene
Senior	Botany
DEPARTMENT OF ENGLISH:	Geology
Rhetoric	Zoology
English Literature	Histology
Logic	Paleontology
History of English Literature	DEPARTMENT OF PHYSICS AND CHEMISTRY:
Early English	Elementary Physics
DEPARTMENT OF LATIN AND GREEK:	Elementary Chemistry
— year Latin	Organic Chemistry
— year Greek	Agricultural Chemistry
DEPARTMENT OF MODERN LANGUAGES:	Practical Chemistry
— year German	NORMAL DEPARTMENT:
— year French	Civil Government
DEPARTMENT OF MATHEMATICS:	School Economy
Algebra	Psychology
Geometry	Methods of Teaching
Trigonometry	MENTAL AND MORAL PHILOSOPHY
Surveying	POLITICAL ECONOMY
Calculus	BOOK-KEEPING
Mechanics	PRACTICAL MECHANICS
Astronomy	DRAWING
	MILITARY TACTICS

PREPARATORY DEPARTMENT.

JUNIOR.		SENIOR.
Algebra—Elementary	<u>11.16</u>	Algebra—Complete
Arithmetic—Practical	<u>11.63</u>	Arithmetic—Higher
English Grammar—Elementary	<u>12.44</u>	English Grammar—Advanced
Geography—Descriptive and Political		Outlines of History
Elementary History		Physical Geography
		Elementary Zoology
		Elementary Botany

June, 1887

Report of the Classes in Latin and Greek
in The State College of Kentucky, for the Session of 1886-7.

1. Section A in Latin Grammar, reciting daily.

Members: Misses Gay, Warren, H. Warner, Rozzell, Buring, Allen, Hornhook, Rush, Irving (2 mos), M^cConnell (4 mos), Messrs. Joris (3 mos), Roddick, Hill, Hardin, Dolan (5 mos), Batt-
er, D. Mone, C. Mone, Frazer, Calhoun, Bailey, Hunt and Fitzgerald (2 mos) — 23.

Latin Studies: Gildersleeve's Primer, reviewed, morning daily exercise on the blackboard.

2. Section B in Latin Grammar, reciting daily.

Members: Misses Adams and Christian; Messrs. Mulligan, Woolf, K. Bartlett,
B. Anderson, Wilson, Hunter (6 mos), Talcott, Forster (6 mos); Coyle and Beck — 12.

Latin Studies: Gildersleeve's Primer, reviewed, with daily work on the blackboard.

3. Freshman Class in Latin, reciting daily.

Members: Miss C. Warner; Messrs. Feeny, Stanley, Tarrton (4 mos), Allen, Rich-
ols, Boyd and Reese — 8.

Latin Studies: Fallouts Augustine War, Thirty-two Chapters of Livy, a daily
exercise in Latin Grammar and Composition.

4. Sophomore Class in Latin, reciting daily.

Members: Miss M^cElhinny, Messrs. Hoising and R. Anderson — 3.

Latin Studies: Two books of Livy, three books of Horace, Odes (the first reviewed),
a daily exercise in Latin Grammar and Composition.

5. First Preparatory Class in Greek, reciting daily.

Members: Miss C. Warner; Messrs. Hoising and Boyd — 3.

Greek Studies: Two thirds of White's Lessons with appropriate portions of
Gordwin's Grammar, morning a daily exercise in writing Greek on the
blackboard. Miss Warner also read, recited, and was examined on two books of Xenophon.

Respectfully Submitted, John H. Neville, Prof. of Latin & Greek.

[June, 1887]

Gentlemen,

I have the honor herewith to submit my report for the year '86 '87.

The number and class of students in my department was above the average. The attention and interest manifested was good. During the first term I had 19 students in Zoology and 7 in the various Chemistry classes. In the second term I had 23 students in Botany and Horticulture and 14 in the laboratory classes. The students in Botany and Horticulture had their recitations supplemented by individual work in the greenhouse, learning how to make cuttings, grafting, potting etc. The aim of the course being to give it a practical tendency throughout, personal observation was made paramount to all other considerations. In Chemistry the Agricultural Department had a very largely increased attendance, quite satisfactory results being obtained, students in attendance devoting 2, 3, and in some cases even 5 hours a day to experimental work. The work carried on was for the most part of an advanced character, the students having generally determined upon their subsequent occupations were directed into the channels of work bearing directly on the requisite lines. The laboratory space at my command is too limited; the laboratory being overcrowded admission

had to be refused to several. The working benches for next year are already one half engaged and it is absolutely necessary that something be done to secure more room. I intend next year to change my class in elementary zoology into a class in practical zoology for I find more and more that the best results are to be obtained when a student learns by observation, the book definition of a fact being too often an appeal to mere memory.

Amongst my laboratory students I had 5 who purposed becoming pharmacists, all of whom will under the existing state of affairs leave us. I would respectfully suggest that the Board extend us the option of giving a full course in pharmacy. With our present equipment we could by the addition of one man give a pharmacy course as extensive as either Louisville, Nashville or Ann Arbor. We already have instruction given in Botany, zoology, organic chemistry, inorganic chemistry, & practical chemistry. We lack classes in Pharmacy, Materia Medica & Toxicology. I was a student of Dr. Randall of St. Mary's Hospital in Toxicology & Materia Medica and could provide for that class, but it would be essential to have someone to teach Pharmacy. There are in town some 3 or

+ men who I think could undertake
such a class giving one hour a day's
daily instruction. If we adopted this
procedure we should not only retain
our own advanced students but would
get several who now go to Vanderbilt and
Ann Arbor.

For practical work in Zoology an appropriation
of \$50 will suffice.

In the chemical department the usual
additions to the laboratory stock will be
required.

Respy submitted

Albert S. Munk.

A. G. Menck

Annual Report
it is not seen
how 5 hours a day
could be allotted to
one particular sub-
ject to the exclusion
of other subjects.

[June, 1887]

To the Honorable Board of Trustees

Agricultural and Mechanical College of Kentucky
Gentlemen

I have the honor to submit the following report
of the condition of the institution whose
Oversight and Management you have delegated to
me, as also its operations for the Academic
year 1886-7.

The year has been altogether a prosperous one,
perhaps all things considered the most
prosperous in the history of the College.
Its numbers have been steadily increasing from
year to year with of course a corresponding
growth in its classes, and I may add also
a corresponding improvement in this matter
up and Scholarship. During the Collegiate

year there have been entered on the books of the College two hundred and ninety-seven students an increase of over ten per cent above the numbers entered last year, and nearly thirty per cent ~~less~~ above the numbers of 1883-4.

The faculty of instruction remains much the same - except that Prof. Kirby Principal of the Normal Dept. resigned his position during the summer of 1886, ~~to which~~ and his coadjutor Prof. Potter was elected by the Board (Executive Committee) to take his place. The Preparatory Department was ~~also~~ strengthened by the addition of another assistant, Prof. J. L. Logan whose services have proven of great value

3

to a Dept. which has for years been overworked,
and which needs further assistance still.

The work of instruction has embraced the
following subjects viz: Civil History and
Political Economy; Mental and Moral Philosophy;
General Chemistry and Experimental Physics;
English Language and Literature; Latin,
Greek, French, and German; Mathematics;
Natural History - Anatomy, Physiology, Histology,
Microscopy, Comparative Zoology, Geology and
Mineralogy; Analytical Chemistry, quantitative
and qualitative, Book Keeping, Botany and
Zoology with their relations to Agriculture and
Horticulture, Normal School instruction, and
Instruction in the Preparatory Dept. in Arithmetic
Geography Grammar Algebra and History

4

and Military Art and Science. Reports from the Professors and Instructors in these several departments are herewith submitted and made part of this Report.

The Experimental Station which was established in Dec. 1883- has been in successful operation during the past year. It has done a good deal of Analytical work in the Laboratory and a good deal of work in the field the substance of which will be embodied in bulletins printed from time to time and distributed among the farmers of the Commonwealth. The character of the work done and its amount will be found embodied in the Report of the Director which is submitted herewith.

I regard the Experimental Station as a potent
auxiliary to the work of the College bringing it
into more direct and intimate relationship
with the Agriculturists of the State. ~~There may~~
and inducing an interest in its work such
as no other agency could accomplish.

In February of this year an act was passed
by the Congress of the United States to endow
~~existing~~ experimental stations, ~~and~~ in connection
with the Colleges established under the Act of
1862 by an annual appropriation of \$15000.00.
By some oversight in drawing the bill the
Comptroller of the Treasury held that no
appropriation was made for the fiscal year
beginning ~~to~~ July 1 1887. It is confidently
expected however that the next Congress

will secure the oversight by a deficiency bill.
This appropriation when available will provide
for the payment of all the work done by
the Experimental Station at present as well
as for all the chemicals and chemical apparatus
seeds plants etc cetera purchased for its use
and relieve the general fund of the College to
the extent of \$6000.00 or more annually,
besides enabling the College to extend the work
of the station within the limits of the
appropriation. At a critical period in
the history of the bill the Executive Committee
sent me to Washington to render what
assistance I could to facilitate its passage.
Under these circumstances I cannot but
regard the future of the station as ~~at~~

7
full of hope and promise.

Experience of the past few years has been of service to us in the question of Normal School instruction. The Principal of the Dept. Prof. Potter will submit to the Board courses of study embodying the result of conferences with the Executive Committee and with his colleagues on the best means of meeting, with the resources at our command the expectations and the necessities of the public.

The scholarship of the past year in the several departments has I believe been fully up to the average of former years. The efficiency of the Preparatory Department has been increased and this means better preparation for those who pass from it into the

Freshman class of the College. The prospect is
fair at present for the largest Freshman
class for 1887-8 which we have ever had.
I am gratified to be able to state that the
arrangement by which the bulk of the students
in Chemical Analysis was ~~transferred~~ from
the Professor of General Chemistry to the Professor
of Organic Chemistry has worked admirably
well worth standing the meagre room at his
command. The result is a larger class
in practical Chemistry with more satisfactory
attainments than the College has had since
its organization.

I may add in this connection that at ^a very
small additional outlay a school of Pharmacy
could be established which would not only

be of material advantage in retaining longer many of our students, but would in all probability bring large additional numbers to the institution. The report of the Professor of Organic Chemistry will deal with this suggestion more fully.

The discipline of the College has on the whole been well maintained during the year. The behavior of the students has been good. The general health too has been good with the exception of an outbreak of measles of a somewhat malignant type in the dormitory. Happily no deaths resulted but many of the students were obliged to withdraw after recovery, mainly on account of weakness in the eyes.

The necessities of the College are many and little or nothing has been done during the past year to provide for them. Some of these necessities are imperative.

1st The purchase of land for experimental work. No provision is made in the Experiment Station bill passed by Congress for the purchase of land out of the annual appropriation. 20 per cent of the first year's income may be used for buildings and 5% each year thereafter, but no part of it can be applied to the purchase of land. If therefore the station comes in any degree up to the requirements of the Act land is indispensable and this land can only be purchased

out of the General College fund. I have in every report made for years insisted upon this as imperative and advised the most rigid economy in the expenditure of funds with a view to this end.

2nd Additional Dormitory accommodation is needed.

We have now nearly reached our capacity for numbers under existing conditions.

If we had another dormitory I am confident that I could go out into the field and fill it in six months.

3rd The Preparatory Department requires an additional instructor. If further evidence be needed of this necessity - it will be found in the Report of the Committee of which Genl Bull is Chairman.

Made this Board.

4th A library and a room to put it in are among the prime necessities of a College. We have neither.

5th We have at present no room for the young men's Christian Association.

6th The existing facilities of the College are one of the most potent auxiliaries in College work and very inadequately provided for. One of them indeed has no room for its meetings and is dependent on the courtesy of one of the Professors for this end.

7th I invite the attention of the Board of Trustees to the existing provisions for instruction in Chemical Science with a view to economy

and increased efficiency.

I desire to congratulate the Board of Trustees upon the success of the year, and to thank them and the Executive Committee for the confidence and support which they have given me in the discharge of duties both responsible and onerous.

I am with much respect

your obt servant

Geo. K. Patton

June, 1887

1 Crest Jas. H. Patterson Ph.D.

Chemical
Work.

Dear Sir:-

The work of the Experiment Station during the year, is herewith presented.

In the laboratory a total of 271 analyses have been made, divided as follows:

Fertilizer analyses "official"	106
" " " not "	17
Potato	59
Sorghum	38
Feeding Stuffs	38
Milk	10
Poison analyses	4

The last includes the analysis of a stomach of a cow, and also of a horse.

The results of the analyses of feeding stuffs in detail is presented in Bulletin No. 5 appended.

The work on the potato, in Bulletin No. 9. and the fertilizer analyses in Bulletins Nos. 7th and 10. As will be seen, the largest and perhaps most important work of the station has been in the

Fertilizer
Law.

2.

analyses of fertilizers.

By an act of the last Legislature a new Fertilizer law went into effect July 1st last. This law provides that the Director of this station shall have charge of its enforcement, and he is directed to analyze, yearly, a sample of each brand sold in the state, and to publish the results in the form of labels - and also to estimate and publish on such labels the commercial value of each brand.

The law further provides that the Director shall receive, for the benefit of the Station, \$15 for each official analysis, and \$1 per hundred for labels.

Under the provisions of this law 50 different brands were submitted for analysis last year and 56 have been presented so far this year.

The old law under control of the Com. of Agriculture had become nearly inoperative, only 11 brands being licensed the last year of its existence. It was with difficulty therefore that the provisions of the new law

3

could be enforced at first.

Manufacturers were inclined to ignore it as they had the old law.

In order that the new law should become generally known I issued a circular containing a copy of the law in full and distributed copies through the state and sent them to the various manufacturers of fertilizers.

To enforce the law I ~~have~~ personally inspected fertilizers in Louisville, Covington, New York and other places, and when I found agents or manufacturers not complying I notified them of the fact and they have in every case since complied.

I am persuaded that the enforcement of the law will save many thousands of dollars to consumers yearly.

Hitherto the manufacturers were selling at prices dependent on the skill of their agents in persuading their purchasers of the excellent grade of their goods — now they are compelled to sell at a figure which

4.

represents the value of the ingredients of which the fertilizer is composed.

The law also provides that consumers may send in samples of fertilizers for analyses - which analyses the Director shall make free of charge. The farmers are beginning to take advantage of this and 17 samples have already been submitted in accordance with this provision.

For analysis fees and tags the station received last year \$1020.00

The expenses accruing under same were \$437.33 leaving a net income for last year of \$582.65.

So far this year the work done under the law has amounted to \$1265.60

The expenses pertaining thereto have been \$432.00. Leaving a net balance of \$833.60.

The work for this year is not all in yet, and I estimate that we will take in this year something over \$1500 - with a net income of probably about a \$1000.

In estimating the expenses I have taken into account the printing of

Income
from
Fertilizer
Law.

8.
Field
Experiments.

tags and fertilizer bulletins and postage in sending same; also an estimate of chemicals used and included 3 months salary of my assistant.

The field work of the Station has been carried on under disadvantages.

In the first place the land at our disposal is unfitted for accurate experiments.

The contour is too uneven to attempt experiments with fertilizers with success. — for the fertilizers applied to one plot are liable to wash into an adjoining plot at the first heavy rain.

In plot experiments all conditions should be alike in order to make conclusions of value.

Such conditions can only exist in any extended scale, on level land of even fertility. The matter of washing, of drainage, of soil temperature, of the sun's rays, each has its influence on the production of our crops and in any accurate experiments none of these can be over-

6.

looked - but on rolling land, such as ours, these varying conditions of necessity exist.

The only level land we have for experimental purposes was ruined during the construction of the college buildings. The brick were made on the ground and the soil was taken off here and there all over the field for the purpose of making brick or getting to the clay for that purpose - the holes have since been filled up with clay - and of course such land is worthless for experimental purposes. The land has been plotted in a manner to avoid, as much as possible, objectionable features, or irregularities in plots but with little success. Our corn experiments last year proved a failure as to results, on account of the inequality of fertility of the various plots. The wheat, potato and tobacco plots proved more uniform and yielded results upon which conclusions were reached.

We experienced another difficulty in having no storage room for

7.

our various crops. It is impossible to do much field work without the necessary room to store the products of various plots separately until such time as can be at command to select, thresh, weigh, etc. Under such disadvantages we made some progress.

Least year we made some experiments with wheat. In the trial of varieties 10 were tested - and three discarded as valueless for this locality on account of the liability of being winter killed. These experiments are published in Bulletin No. 8.

Quite a number of plots were planted with potatoes. The object being: 1. To test varieties. 2 - Effect of Fertilizers and 3. Preparation of seed. The results are published in Bulletin No. 9.

Many varieties of corn were planted - and various methods of planting were tried - but the unevenness of the soil precluded conclusions.

The effect of fertilizers on tobacco was made the subject of an experiment, also trials of different

8.

varieties. These results will be published soon.

27 varieties of oats were planted but the results were not satisfactory for the same reason given for the corn.

This year our experiments with wheat have been greatly extended; Also our potato experiments. We are also testing several varieties of strawberries.

Green
House

The Board at the last annual meeting ordered a green-house to be built at a cost not to exceed \$600. In accordance with this order such a house was erected last fall, costing \$550.

This has been useful not only to the Station but to the students of botany as well, and it gives a means of beautifying the college grounds besides.

Green
House
Experiments

A series of experiments were made during the winter in the Green-house testing the wants of a soil sent by Mr. A. P. Farnsley of Jefferson Co. The results were quite satisfactory.

9.

These experiments are now being repeated on a larger scale on Mr Farnsley's land.

The feature of making experiments directly on soils in different portions of the state is one that would soon make the station both popular and useful.

Bulletins

Since my last report the station has published and distributed 6 bulletins aggregating — 90 — pages of printed matter.

These bulletins have been regularly sent to the newspapers of the state and to all citizens whose addresses have been sent in for the purpose.

Correspondence

Much of the time of the Director has been occupied during the year in answering various inquiries and attending to the necessary station correspondence.

This work is of value to the college and inquiries have been encouraged.

Free

Analyses

Free Analyses have been made for farmers requesting same. An.

16.
analysis made ~~for a mass~~ free of charge, will make the recipient a friend of the college, and as it is those generally of influence that desire such work done, this feature should be made prominent so soon as the necessary force can be obtained.

Visit of
Committee
other stations

During the fall term a committee of the Ex. Committee & the Director visited the Experiment Stations of Ohio and New York. The report of the committee is herewith appended.

The Hatch
Experiment
Bill

During the year, Congress passed The Hatch Experiment Station Bill. A copy of which is here incorporated.

THE HATCH BILL AS PASSED.

Full Text of the Experiment Station Bill as Enacted by Congress and Approved by the President.

An act to establish agricultural experiment stations in connection with the colleges established in the several states under the provisions of an act approved July 2, 1862, and of the acts supplementary thereto.

SECTION 1. Be it enacted, that the results of investigation of such lines of inquiry as to him from time to time, such lines of inquiry as to him shall seem most important; and, in general, to furnish such advice and assistance as will best promote the purposes of this act. It shall be the duty of each of said stations, annually, on or before the first day of February, to make to the governor of the state or territory in which it is located, a full and detailed report of its operations, including a statement of receipts and expenditures, a copy of which report shall be sent to each of said stations, to the said commissioner of agriculture, and to the secretary of the treasury of the United States.

SEC. 4. That bulletins or reports of progress shall be published at said stations at least once in three months, one copy of which shall be sent to each newspaper in the states or territories in which they are respectively located, and to such individuals actually engaged in farming, as may request the same, and the station will permit. Such bulletins or reports, and the annual reports of said stations, shall be transmitted in the mails of the United States free of charge for postage, under such regulations as the postmaster-general may from time to time prescribe.

SEC. 5. That for the purpose of paying the necessary expenses of conducting investigations and experiments and printing and distributing the results as hereinbefore prescribed, the sum of \$15,000 is hereby appropriated to each state to be specially

The Hatch
Experiment
Bill

herewith appended.
During the year, Congress pass-
ed The Hatch Experiment Station
Bill. A copy of which is here
incorporated.

THE HATCH BILL AS PASSED.

Full Text of "the Experiment Station Bill
as Enacted by Congress and Approved
by the President.

An act to establish agricultural experi-
ment stations in connection with the colleges
established in the several states under the
provisions of an act approved July 2, 1862,
and of the acts supplementary thereto.

SECTION 1. Be it enacted by the Senate and
House of Representatives of the United States of
America in Congress assembled, That in order to
aid in acquiring and diffusing among the people of
the United States useful and practical information
on subjects connected with agriculture, and to pro-
mote scientific investigation and experiment re-
specting the principles and applications of agricul-
tural science, there shall be established, under di-
rection of the college or colleges, or agricultural de-
partment of colleges, in each state or territory es-
tablished, or which may hereafter be established, in
accordance with the provisions of an act approved
July 2, 1862, entitled "An act donating public lands to
the several states and territories which may provide
colleges for the benefit of agriculture and the me-
chanic arts," or any of the supplements to said act,
a department to be known and designated as an "ag-
ricultural experiment station." Provided, That in
any state or territory in which two such
colleges have been or may be so estab-
lished, the appropriation hereinafter made to such
state or territory shall be equally divided between
such colleges, unless the Legislature of such state or
territory shall otherwise direct.

Sec. 2. That it shall be the object and duty of said
experiment stations to conduct original researches
or verify experiments on the physiology of plants
and animals; the diseases to which they are sever-
ly subject, with the remedies for the same; the
chemical composition of useful plants at their dif-
ferent stages of growth; the comparative advantages
of rotative cropping as pursued under a varying se-
ries of crops; the capacity of new plants or trees for
acclimation; the analysis of soils and water; the
chemical composition of manures, natural or arti-
ficial, with experiments designed to test their com-
parative effects on crops of different kinds; the
adaptation and value of grasses and forage plants;
the composition and digestibility of the dif-
ferent kinds of food for domestic animals; the sci-
entific and economic questions involved in the
production of butter and cheese; and such other
researches or experiments bearing directly on the
agricultural industry of the United States as may
in each case be deemed advisable, having due re-
gard to the varying conditions and needs of the re-
spective states or territories.

Sec. 3. That in order to secure, as far as practic-
able, uniformity of methods and results in the work
of said stations, it shall be the duty of the United
States commissioner of agriculture to furnish
forms, as far as practicable, for the tabulation of re-
sults of investigation or experiments; to indicate,
from time to time, such lines of inquiry as to him
shall seem most important; and, in general, to fur-
nish such advice and assistance as will best promote
the purposes of this act. It shall be the duty of
each of said stations, annually, on or before the first
day of February, to make to the governor of the
state or territory in which it is located, a full and
detailed report of its operations, including a state-
ment of receipts and expenditures, a copy of which
report shall be sent to each of said stations, to the
said commissioner of agriculture, and to the secre-
tary of the treasury of the United States.

Sec. 4. That bulletins or reports of progress shall
be published at said stations at least once in three
months, one copy of which shall be sent to each news-
paper in the states or territories in which they are
respectively located, and to such individuals actual-
ly engaged in farming, as may request the same, and
bulletins or reports, and the annual reports of said
stations, shall be transmitted in the mails of the
United States free of charge for postage, under such
regulations as the postmaster-general may from
time to time prescribe.

Sec. 5. That for the purpose of paying the neces-
sary expenses of conducting investigations and ex-
periments and printing and distributing the results
as hereinbefore prescribed, the sum of \$15,000 is
hereby appropriated to each state, to be specially
provided for by Congress in the appropriations from
year to year, and to each territory entitled under
the provisions of section eight of this act, out of any
money in the treasury proceeding from the sales of
public lands, to be paid in equal quarterly payments
on the first day of January, April, July and October
in each year, to the treasurer or other officer duly
appointed by the governing boards of said colleges
to receive the same, the first payment to be made
on the first day of October, 1887: Provided, however,
That out of the first annual appropriation so re-
ceived by any station an amount not exceeding one-
fifth may be expended in the erection, enlargement,
or repair of a building or buildings necessary for
carrying on the work of such station; and thereafter
an amount not exceeding 5 per centum of such an-
nual appropriation may be so expended.

Sec. 6. That whenever it shall appear to the
Secretary of the Treasury from the annual state-
ment of receipts and expenditures of any of said sta-
tions, that a portion of the preceding annual ap-
propriation remains unexpended, such amount shall
be deducted from the next succeeding annual ap-
propriation to such station, in order that the amount of
money appropriated to any station shall not exceed
the amount actually and necessarily required for its
maintenance and support.

Sec. 7. That nothing in this act shall be construed
to impair or modify the legal relation existing be-
tween any of the said colleges and the government
of the states or territories in which they are re-
spectively located.

Sec. 8. That in states having colleges entitled un-
der this section to the benefits of this
act, and having also agricultural experiment
stations established by law separate from
said colleges, such states shall be author-
ized to apply such benefits to experiments at sta-
tions so established, by such states; and in case any
state shall have established, under the provisions of
said act of July 2 aforesaid, an agricultural de-
partment or experimental station in connection with any
university, college, or institution not distinctively
an agricultural college or school, and such state shall
have established or shall hereafter establish a se-
parate agricultural college or school, which shall
have connected therewith an experimental farm or
station, the legislature of such state may apply in
whole or in part the appropriation by this act made,
to such separate agricultural college or school; and
no legislature shall, by contract, express or implied,
disable itself from so doing.

Sec. 9. That the grants of moneys authorized by
this act are made subject to the legislative assent of
the several states and territories to the purpose of
said grants: Provided, That payments of such in-
stalments of the appropriation herein made as shall
become due to any state before the adjournment of
the regular session of its legislature meeting next
after the passage of this act shall be made upon the
assent of the governor thereof duly certified to the
Secretary of the Treasury.

Sec. 10. Nothing in this act shall be held or con-
strued as binding the United States to continue any
payments from the Treasury to any or all the
states or institutions mentioned in this act, but Con-

11.

When the appropriation becomes available we should be ready to begin the fulfilment of the requirements of this law.

To this end we will need:-

Our needs

1. An experimental farm.
 2. A storage barn.
 3. A stock barn with experimental stalls.
 4. Stock for experimental purposes.
 5. A more extended Chemical laboratory as well as a botanical and Entomological laboratory.
 6. An increase of working force.
- We will need a large force to carry out the Chemical work laid down.

In order to study the diseases of animals we will need a thoroughly competent and practical Veterinarian.

To study the diseases of plants will require the services of a botanist and an Entomologist.

Farm

As to land, The Congressional Appropriation is not available for the purchase of land - But in order to accept the trust given

12.

by Congress - We should be able to carry out field experiments. This necessitates an experimental field. I would recommend the purchase of land immediately if the funds of the college will allow of it. It then can be plotted this fall and be ready for next year's work.

Great care should be taken in the selection of the land - that a suitable price will be obtained.

The land should also be near the college - that it may be available to student labor.

The funds necessary for the other needs specified can be taken from the Congressional fund - and I would recommend that as soon as this fund becomes available immediate steps be taken to supply them that the station may begin work on a thorough basis.

Recommendations, Mr. Alfred Peter, Assistant Chemist has shown himself to be exceptionally qualified for

his duties and has far exceeded my expectations. He is a painstaking and exact analyst and thoroughly competent. He is just such a man as the station needs for analytical work of official character, and is always willing to undertake anything I may ask of him.

His compensation is now \$600 per year. His services are worth much more. I would recommend that his salary be liberally increased, such increase to begin July 1 next and be paid from the Congressional fund when available. I would also recommend that Mr. Peter be allowed one month's vacation yearly as his work is too confining without such vacation.

Mr. James Murray has been of invaluable service to us, and he has my entire confidence in his ability for the position which he holds. I have had during the year at different times

Stedens

1
students Patterson, Gunn, and
Curtis to assist in chemical
work and they have done
credit able work. The Station
would be able to give all
students in the Agl and
Chemical Courses practical
work to do in chemistry were
they qualified, but I find
few capable of doing even
qualitative work.

Respectfully Submitted
W. Sewall Director.

Report of
M.A. Durrell
Director

Eight Station
1887

A good report,
The college is
not in a credit-
able position
that is profuse.
The salary of
his assistant-
Mr. Retin says
to be increased

STATE COLLEGE OF KENTUCKY.

Lexington, Ky., Sept. 16 1887

The Bearer has satisfied the condition of admission into the Departments of this College, indicated by the signatures attached.

Credentials JAMES K. PATTERSON President
Civil History and Political Economy Professor
Mental and Moral Philosophy Professor
Chemistry and Experimental Physics Professor
9-10 or 11-12 English Literature John Shackelford Professor
Mathematics Professor
Natural Science Professor
Normal School Professor
Ancient Languages Professor
Modern Languages Emma Elm J. M. Helms Professor 10-11
Engineering and Drawing Professor
Military Science Professor
Agriculture and Horticulture Professor
Practical Mechanics Professor
Book-keeping Professor
Preparatory Department Professor
Fees Treasurer

Matriculate Thomas Remulus Lackson
State Ky
County Delaware
Postoffice Levin Chester
Parent or Guardian W. D. Lackson

This paper, when properly signed, must be presented to the President without delay, who will then matriculate the bearer.

47-M-67

Swinton: Studies in
English Literature

STATE COLLEGE OF KENTUCKY

1887

Booth & Co. 18 Days. Invoice
order

Oct. 14, 1887

Lexington, Ky.,

188

- | | |
|-----------------------|---|
| 1st Sergeants (7) | 2 ^d , 3 ^d , 4 th Sergeants (8) |
| 1 Anderson A. V. | ✓ Four names left |
| 2 Levum | ✓ after filling (7) and one, |
| 3 Taylor L. J. | ✓ after filling (6). |
| 4 Steadman | ✓ ✓ 6. Aldham J. |
| and the four | ✓ 7. Sellier L. M. |
| names left after | ✓ 8. Feeny A. |
| filling (5). | ✓ 9. Curtis A. A. |
| | ✓ 10. Hardin A. A. |
| | 11. Boyd C. |
| | ✓ 12. Allen C. |
| (8) Continued. | ✓ 13. Bonaparte A. |
| 21 Thornton J. H. | ✓ 14. Reynolds |
| 22 Bartlett M. H. | ✓ 15. Wilson A. L. |
| 23 Wells | ✓ ✓ 16. Lancaster G. D. |
| 24 Langley | ✓ 17. Faulkner |
| 25 Ellis J. F. | ✓ ✓ 18. Stanfill |
| | ✓ 19. Jackson |
| | 20. Suerant |

Lexington, Ky.,

188

^{1st, 2d, 3d, 4th} Corporals. (9)

- | | |
|------------------|------------------|
| 1 Stephens R. L. | 9 Bosworth C. C. |
| 2 Moore C. C. | 10 Coyle |
| 3 Bosworth N. L. | 11 Bryan J. L. |
| 4 Baltzer | 12 Danahy |
| 5 Denny | 13 Walker P. G. |
| 6 Salmon | 14 Luxon |
| 7 Thomas | 15 Gunn H. M. |
| 8 Woolfolk Joe | 16 Tilton |
- and all names left after filling (8.)

P.S. Since the foregoing list was prepared Messrs De Courcy and J. A. Yates have returned to college and are recommended in (1) and (3) respectively.

Respectfully submitted by Committee
appointed at meeting of Faculty Oct. 14th 1887.
Jas. Y. White, Sec. of Comm.

Captains (1)	Quartermaster (4)
1. Oldham R. E.	✓ 1. Brock C. A.
2. Railey	✓ 2. Scovill F.
3. Walker R. B.	2 ^d Lieutenants (5)
4. Dohan R. H.	✓ 1. Walker P. M.
5. Calhoun C. C.	✓ 2. Ingram
6. Gunn J. M.	✓ 3. Ellershaw
7. Boeing C.	and the <u>four</u> names
8. Roddick W. H.	left after filling (3)
Adjutant (2)	<u>and one, after filling (4)</u>
1. Patterson W. A.	
2. Roddick W. H.	Sergeant Major (6)
1 st Lieutenants (3)	✓ Worthington W.
1. McFarlin	✓ Wallis W. H.
2. Mulligan	The one name
3. Stanley	not selected in
4. Nicholas	filling (6) is
and the <u>four</u> names	recommended in (8)
left after filling	
(1) and (2)	

Agricultural and Mechanical
College

To His Excellency

Lexington, Ky.,

S. B. Buckner,

Dec 12 1887

Governor of Kentucky.

1887

Sir,

I have the honor to submit the following
report to you and through you to the
Legislature of the Commonwealth.

The Agricultural and Mechanical College of
Kentucky closed the Academic year 1885-6
with a Matriculation list of 269 students,
that of 1886-7 with 297 students, while
the indications are that the list of the
present year will reach 340 or 350.
For years there has been a steady and
healthy growth as well in material
equipment as in numbers, successive

2

additions involving considerable outlay have been made to the Department of Natural History, including a good Mineralogical Cabinet purchased last year, and material for illustrating the theoretical instruction in Anatomy and Physiology. Practical work in the Laboratory of the Department is undertaken and carried on concurrently with the instruction from the text books in all the subjects included under this general and somewhat elastic designation. In the Department of Chemistry a very notable advance has been made, the number of Laboratory students in chemical work has increased in such proportion that an extension of Laboratory facilities became

3
imperative. Provision has been made
within the last two years for a large
number of additional workers in the
various chemical analyses and the
necessary apparatus, at considerable
expense, has been supplied.

The most important step however in
expansion has been the establishment
and equipment of the Experiment Station,
an addition exclusively in the interest
of the Agriculturists of the Commonwealth.
This has involved a good deal of expense.
Not less than \$2000,00 of our expenditures
are now chargeable annually to this

Department. A Director and his assistant,
a ~~technical~~ supervision of the practical

4

work, with paid assistants to do the work required, with expenditures for apparatus chemicals seeds and implements make up this aggregate. But the results obtained more than compensate for the expenditures. The Bulletins issued from time to time containing field results and analytical results wrought out in the Chemist Dept. of the Station are welcomed and read by thousands of farmers to whom they are sent gratuitously. Within the last two months the College has bought a farm ^{near} ~~within~~ the College grounds in order to furnish additional facilities in experimental work. The funds wherewith the first

5

payment was made could have been advantageously employed in other directions, but the Board of Trustees wisely concluded that the agricultural interests of the institution required their special care and that no expenditure could be made which would realize the end in view in an equal degree.

By act of the Legislature all fertilizers sold within the Commonwealth are required to be analyzed in our Experiment Station, sworn samples being sent within by Vendors and Manufacturers on or before the first day of May of each year, The Constituent Elements of these fertilizers are printed on Tags

6

Supplied to the Vendors, with the commercial value of the same over the signature of the Director and no package bearing or box of any fertilizer is legally on sale, within the state which is not provided with the tag supplied by the Director. The protection thus afforded against fraud is thus of incalculable value. Any farmer, a bona fide purchaser who has cause to believe that a fraudulent article has been sold to him can send a sample to the station and have it analyzed free of charge. And the farmers are not slow to avail themselves of the privilege. A Bureau of Correspondence is also

7
established as an integral part of the
station work and hundreds of letters are
received every month to which suitable
answers are returned. Through the work
of the station the institution is establishing
an intimacy of relationship with
the agriculturists of the state which
is most gratifying to its officers and
friends. At a Convention of Agricultural
College Presidents and Directors of Stations
recently held at Washington I was
gratified to hear the work of our station
spoken of in terms of the highest
compliment by the Commissioner of
Agriculture and by some of the best
& prominent agriculturists of the country.

2 Ag. McCal

8

Instruction has been given in the following branches of study, viz: Chemistry, Organic and inorganic; Qualitative and Quantitative Analysis; Agricultural Chemistry; Botany, Zoology, Comparative Zoology, Anatomy and Physiology, Histology, Microscopy, Geology, Mineralogy, Paleontology; Algebra, Geometry, Trigonometry, Surveying, Analytical Geometry, Mechanics, Astronomy, Calculus; Elementary Physics and Practical Mechanics, Drawing; Civil History, Political Economy, Mental and Moral Philosophy; Rhetoric, Logic, English Literature; Latin, Greek, French, German; Book Keeping; Theory and Practice of Teaching, School Economy. Besides the foregoing Courses of Study a Preparatory Department properly manned provides instruction

9
for those who are not sufficiently advanced to
enter the regular College Classes. The studies
in the Preparatory Department include, Geography,
Arithmetic, English Grammar, Algebra, Physical
Geography, Elementary History. ~~The Normal~~
The Normal Department of the College
embraces four Courses of study viz, Common
School Normal Course, one year, the
design of which is to fit properly prepared
students to obtain a certificate to teach in
the Common Schools of the State; the
Advanced Common School ^{Normal} Course, which
extends over two years prepares students
to teach in the highest grade of Common
Schools; the Intermediate Normal Course
which extends over three years, prepares

10

Students for the conduct of a still higher class of schools: The Collegiate Normal Course, extending over four years entitles the student who completes it to a diploma and prepares him for the conduct of an Academy or Collegiate School. The several courses of study in Etanço will be found in the Annual Registers or Catalogues herewith transmitted and which are made part of this Report. In the Registers or Catalogues referred to will also be found, the Regulations relating to the discipline of the College. The establishment of the Experiment Station above signed to has enabled us in a degree not heretofore practicable to supplement

11
The instruction of the class room in those
branches of learning relating to agriculture
by a practical application of the knowledge
thus acquired in the field. The additional
land purchased recently will enable
us to extend this practical work still
further by the experiments in stock feeding
which the College will begin at an
early day.

I regret to say that our facilities for instruction
in Practical Mechanics fall far short of
our wishes. No great extension is however
^{practicable} ~~practical~~ in this direction until we
are provided with more shop room.
During the Autumn all the available
space in the shop, wherein instruction

12

is given in the use of tools and in work in wood and brass and iron, has been occupied. It is greatly to be desired that the facilities for shop work should be ^{largely} ~~greatly~~ extended. This however can not be done until an additional Building is provided.

The necessities of the mechanic are less than those of the agriculturist point unmistakably in the direction of skilled labor. The competition of producers is now so keen in the old world and the new that only the skilled laborer can hope to hold his own. The margin of profit is so small that the capitalist who employs unskilled labor must be driven to the

13

well. The skillful hand and the educated
 brain will give to the individual to the
 corporation and to the nation an ~~incontestable~~
 incontestable superiority in production, in
 industrial enterprise and in trade. I desire
 therefore to urge upon you ~~your~~ ^{your} excellency and
 through you upon the Legislature of the Commonwealth
 the necessity of making ample provision
 in the State College for an extended
 course of technical instruction such as
 one opportunity and one ^{necessities} ~~necessity~~ require.
 The day is not far distant when in
 the development of the resources of the
 State the demand for skilled labor in
 many ~~department~~ branches of industry
 will be far in excess of the present.

14

We require to educate men who can
among our rail roads, build our bridges
open our mines, construct our furnaces
and rolling mills, take our coal and
smelt our iron. We want men who
can build and operate factories, and
skilled artisans who can do the
work appropriate to them. To supply
such skilled labor, both as operators
and as owners should be the aim
of the mechanical side of the Agricultural
and Mechanical College. This will however
require money and a good deal of it.
But no investment will pay better in
the end. A great obligation rests upon
the state to provide the means for

15

this purpose. The Congressional donation of land given by Congress in 1862 amounting to 330,000 acres of land would if it had ^{been} judiciously and economically managed have provided a splendid endowment the annual interest of which would have been ample for the wants of the College. It was however unfortunately sacrificed by the agent into whose ~~bad~~ hands the State entrusted it for sale and only \$165,000 were realized from the sale of the magnificent domain. Having accepted the trust, and virtually sacrificed the principal the State should see to it that the institution founded and endowed by the residue of it should not be crippled for lack of means.

16

The spirit of the age is in the direction of industrial and technical training. The younger states around us as well as the older ones, the states of the old world and the new are making enormous strides in this newer and wiser race for supremacy. They are spending their thousands and tens of thousands annually in promoting the highest and most thorough scientific and technical training of their citizens. My desire is to see the amplest provision made by the state of Kentucky for the thorough training of her sons in scientific agriculture and horticulture and in technology that she shall be able to hold her own with the most advanced

17
the ~~most~~ most energetic the most liberal
and the most ambitious of the sisterhood
of states of which she is one, that
the School of Technology as well as the
School of Agriculture of her State College
shall be her glory and her pride.
The wants of the State College are many, and
I am glad to bring them before her
patriotic Chief Magistrate and her
legislature. We want much more than
we did eight years ago. Then our
College buildings and dormitories were
ample, now we have outgrown [there,
our recitation rooms are too small
and too few for our students, our
dormitory is taxed almost beyond

3 M. & A. Cal.

19

be vested in the future in the members of the General Assembly instead of in the County Courts as heretofore. We believe that this would assume a better and more general representation from the Counties.

2nd That instead of Twelve Trustees, as at present established the Board should consist of fifteen. This would give us one from each Congressional district, and five from the County of Fayette in order to form an efficient Executive Committee. Seven of the Twelve now appointed are selected from any part of the State. Each Congressional district should be entitled to one.

18

its capacity for accommodation. We need additional recitation rooms, rooms for museums, botanical geological and mineralogical collections, we need more laboratories, more chemical and philosophical apparatus, we need additional dormitory accommodations for board and lodgings. We have been growing and expanding, and I am glad to add that there is every likelihood that we will continue to grow and expand for years to come.

There are ~~several~~ several suggestions which I beg your permission to make.

1st that the method of appointment of benefactors be changed, that the appointments

3rd The Legislature should appoint a Committee

20 of ^{three} ~~four~~ to visit the College at stated ~~periods~~ during the legislative biennial period whose duty it should be to make a report of their observations on the condition work and necessities of the Institution to each General Assembly.

A report of this kind from an independent stand point would be of great benefit to the Legislature and the public.

In conclusion I beg to thank your Excellency for the intelligent and hearty interest which you have manifested in this Institution both as Trustee and as Chief Executive of the Commonwealth. I feel assured that the interests of this great public

School will not suffer in your hands.

21 My wish and belief is that under your
fostering care and your unselfish and
patriotic direction it will reach a
higher level of usefulness ~~than~~ and of
power for good than it has hitherto
attained and that the close of your
gubernatorial period will find it not
only the highest level in your
administration but in the Commonwealth.
I am

With profound regard

Your Obt. Servant

James K. Patterson

President

200 Copies

47-11-64

Any Piece of Music (no matter where published) will be sent, postage paid, to any address, on receipt of marked price.

Lexington, Ky., December 12 1887

Mc A + Mc College by order of Col D H Clark

BOUGHT
OF

N. A. SCHAEFFER,

DEALER IN

Pianos, Organs, Music and Music Merchandise,

TERMS CASH.

No. 48 Main Street, Higgins' Block.

Music sent by Mail cannot be Exchanged.

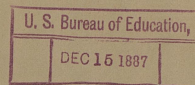
To	4 Calfskin Drumheads 20 inch each	\$1.25	5.00
	Putting in 4 heads in 2 Drums	.75	3.00
	2 dozen Drumhooks	.25	.50
	1 Coil Drumchord		.50
	One gum silver Snairstrainer		.50
	8 Drum Braces	.50	4.00
	10 feet Drumsonares		.50
2 head	2.50 -		
	75		
			\$10.40

Ex rap

Finance Com

2 head

ALL ACCOUNTS DUE AT THE END OF EVERY MONTH.



Publications.

*Agricultural & Mechanical College of
Kentucky.
Lexington, Ky.*

*Reports 1869-70, 1870-71, 1871-72, 1872-73, 1874-75,
1875-76, 1876-77, 1877-78.*

*Annual registers. All previous to 1882
and all after 1883.*

47-M-64

Department of the Interior,
Bureau of Education,

Washington, D. C.

Dear Sir:

This Bureau possesses a large and valuable collection of catalogues, reports, registers, announcements, and other ephemeral publications of institutions for superior and professional instruction in this country, but unfortunately many numbers are missing. In view of the importance of such a collection to American educational history, I would ask your kind assistance in my efforts to make it as complete as possible. Completed series will be bound for permanent preservation.

The within written list gives the names of the documents relating to your institution which are known to be absent from the files of the Bureau library. If you have copies of these, I shall be pleased to receive them, or to be informed how they may be obtained.

Hoping to be favored with an early reply, I am

Very respectfully yours,

N. H. R. Dawson,
Commissioner.

Nov 30 1887

Report of demerits from Nov 1 to Nov 30
inclusive.

Adams T.R. 56	Danahy J.P. 10
And, J.M. 13	Davis G.C. 10
Anderson J.B. 15	Dolan T.T. 5
Aulick C.C. 5	Dorsey C.C. 3
Asher H.H. 2	Deane H.T. 14
	Emmatt T. 20
Boswell J.H. 3	Elkin F.C. 9
Barker B.L. 5	Foley H.J. 3
Boswell G.H. 10	Fisher J. 5
Bartlett M.H. 29	Frazier R.H. 10
Brown R.A. 5	Fung C. 10
Brown F.H. 5	Gibson F.H. 5
Burch H.S. 20	Ginsant M. 20
Burgess M.L. 5	Gooding G.H. 20
Barnarth H.L. 3	Hayes J.C. 26
Brown H. 25	Hardin H.Y. 20
Crystal C.L. 50	Hunt H.D. 5
Coyle H.B. 10	Howell H.T. 12
Curtis C.C. 14	Hutchinson G.H. 3
Clement J.H. 23	Hughes L.S. 5
Cochran S.B. 16	Hayes J.S. 5
Cram C.D. 12	Haeing C. 10
Cassidy J.L. 10	Hudson C. 5
Curtis R.A. 5	Hudson L.L. 15
Calhoun J.G. 3	Hill T.C. 5
Colbert R. 5	Heane H.T. 5
Chalk G.F. 10	Johnson J.P. 8
Calhoun C.C. 5	Jackson J.L. 35
	Jenkins A. 5

Le F. Lou Louis 4	Scovill F. E. 10
Le F. Lou L. H. 4	Shely A. M. 10
Le F. Lou F. T. 73	Shelby G. S. 5
Lee C. E. 3	Stadman S. M. 5
Lee B. M. 5	Thobe J. 18
Martin J. M. 14	Tuttle J. F. 5
Middleton S. M. 10	Todd C. L. 4
Moore D. 5	Trigg H. C. 5
Moore S. M. 5	Todd W. R. 9
McCarthy J. P. 10	Vanmeter J. C. 18
Mulligan G. 20	
Maurice J. 10	Waldrop E. 8
Martin J. H. 5	Woolfolk J. C. 38
Nicholas J. V. 30	Williamson H. 13
Norman B. M. 5	West J. E. 1
Norman E. C. 15	Ward J. W. 35
Osborne S. 5	Willis R. E. 3
Page H. S. 5	Waner J. 10
Patterson H. A. 38	Wallace J. H. 10
Perritt H. V. 25	Wilmington H. 5
Piatt D. A. 10	Yongue E. V. 5
Pettit G. T. 14	Young T. B. 10
Rock J. H. 29	
Rucker J. H. 5	
Reynolds F. 3	W. L. Carter
Sellier L. M. 5	Sec. Maj.
Shugley W. F. 17	
Smith D. P. 7	
Sparks W. 15	
Stewart H. 12	

List of donors
 from 1870 to 1900 inclusive

Lexington Kentucky
June 7. 1886.
Gentlemen of the Executive Committee,

I hereby apply for the place
of Tutor of Latin and Greek, at
the State College.
Respectfully

Louis K. de Roode.

Without expressing any preference for Mr. De Roode
over any other applicant for the Tutorship in Greek
and Latin in the State College, I have no doubt whatever
of his qualification for the position -

John H. Newell

Professor of Greek and Latin

I have known Mr. Louis de Roode for several
years and I doubt not that he is abundantly
qualified to fill, with credit to himself and to the
State College, the position of tutor of Latin & Greek.

Jas. L. White

Prof. of Mathematics

I fully concur in the opinion expressed by
the above named professor

Robt. Peter

Prof. Chem & Physics

I know only of the qualifications of
Mr. L. de Roope for the position he seeks
through the members of the faculty and
especially from statements made when
the subject of conferring the degree
of M.A. on him was under consideration.
His qualifications as brought forth
by these statements are of the highest.
From personal acquaintance and the
above considerations I heartily concur
in the commendations made by the
members of the faculty.

W. H. Sewell

I heartily concur in the expressions of opinion
expressed above.

Jan 8th 1886

J. H. Stewart

Pres. Jas. H. Patterson, Prof. Walter Patterson
Prof. Crandall and Prof. Shackelford
say that they prefer to make no dis-
crimination in favor of one graduate
of the College over another, especially
in the present case where they are
warm personal friends of both Mr.
Prewitt and Mr. de Roope.