

the papers a request for specimens contributions of specimens. In this work I have been greatly assisted by President Ward and by several gentlemen two of whom are trustees. We have perhaps 3000 specimens and others have been given which have not as yet been brought to the College building.

We greatly need money for these purposes:

A barrel of Alcohol,

New Cases,

Preserving Jars for Alcoholic Specimens

Current expenses including boxes for insects, taxidermy, expressage on specimens from a distance, &c. &c.

What has been done has been done without drawing on the Treasurer of the Board except for a little repair

costing less than \$50.

Laboratory.

I am expected to teach Chemistry next fall. And I understand that I am expected to do this without asking the Board for any money. Now I am not willing to teach Chemistry without Chemicals and experiments by the students. And I cannot have these things without money. I began to ask for \$50 for this and other purposes but desisted when I learned that friends of the college here would be asked to contribute to the current expenses of this year. What next to do is not clear unless I ask personally for assistance during the summer.

Needs summarized,

One compound microscope	\$50 to	\$75
Four " "		80
Barrel Alcohol,		18
Preserving Jars,	\$10 to	\$20
Museum and Laboratory		100
Physiological and Historical Works,		

Respectfully submitted

Orlando C. Chartton,

Chair Nat. Science

Ottawa, Kan. June 8, 1886,

of the text book and general historical reading. During the past two terms I have had to refer students to the City Library for the most helpful works on American History. The managers of the City Library have been very accommodating in providing books adapted to our special needs and a goodly number of students have the class have availed themselves of the advantages thus placed in their reach. It is to be hoped that in our own Library we may properly supplement the purchases made in the City Library and thus secure double advantages.

Students in U. S. History, 26.

Botany.

Text Book, Gray's New Lessons and Manual.

The class in Botany has done the following work approximately:

1. Analyzed, pressed and mounted 50 plants
2. Studied a number of plants in

detail using the Simple Microscope.
 3. ~~Coluprid~~ Grays Lessons.

Comparatively little time has been spent on that which could be tested by actual experience observation. Those facts which required the use of the Compound Microscope to illustrate, have been examined incidentally, but greater importance has been attached to the work which the students could themselves do with the plants. In this connection, too, I must express a real, a great need of one first class Compound Microscope and of four cheaper Compound Microscope for class work.

Students in Botany 12.

Meteorology.

Soon after entering on my duties last fall, I took up the work of a Voluntary Observer in the U. S. Signal Service. I felt that the Science Department of

the College should come into contact with some of the needs of the general public and, therefore, I entered on the work. I began with one 30-cent thermometer. I soon obtained a second 30-cent thermometer and began a record of the Relative Humidity as well as Temperature. Then I began to feel the need of Standard Instruments Thermometers and talked with two or three gentlemen as to the possibility of securing \$5 with which to buy them. Encouragement was offered and assistance promised. I quickly found it as easy to get \$100 or more as to get \$5. So I agreed to keep permanent records and secure the daily display of Weather Signal Flags if it were possible. As results of my efforts and the most ready cooperation of gentlemen in town I now have in my charge instruments costing

Stirling

about \$85, which are the property of the University. They include

Barometer

Ordinary Standard Thermometer

Wet-Bulb " "

Maximum " "

Minimum " "

Rain Gauge "

Anemometer

These belong to the University, And also seven Signal Flags awaiting the reception of daily telegrams as to the weather when they will be displayed on Main Street

Museum.

The Museum is a beginning but it can, perhaps, be called a good beginning. After putting a part of my own collection in the case in my room, I published in