

C O P Y

HARVARD UNIVERSITY

N. S. Shaler, Dean.
J. L. Love, Secretary.

Lawrence Scientific School,
Cambridge, Mass.,

March 28, 1903.

[Course in Forestry - cost not to exceed \$1200
(handwriting of J.D.G.)]

Gentlemen:

On the part of the Administrative Board, as well as on my own part, I beg you to take steps to establish a programme in Forestry in this School. This matter has been under consideration for more than five years. The requests for instruction and a degree in that subject have been more numerous and more insistent than those made concerning others of our recently instituted programmes. I am inclined to believe that we should quickly have thirty or forty persons taking the work.

In order that I might see the situation more clearly, I have taken a nominal position in the Department of Forestry of the Bureau of Agriculture; and I have thereby gained a clear insight into the opportunities of employment. It is now evident that we can for a number of years to come find places for well-trained men in forestry in the government work, and there are many demands for men to take charge of corporation and private estates. Mr. Gifford Pinchot, who is in charge of the government forestry work, strongly advises the establishment of the proposed programme.

We are singularly well provided with all the teaching necessary to make a better course of Forestry than any other in this country or, perhaps, abroad, except for the instruction in the technical art of the forester. On conference with Mr. Pinchot, it appears desirable to take two of his young men--one, a graduate of this University--each for half a year,--relieving these men in their relations to the Bureau. I have seen the men, and they are excellent

fellows and they would welcome such work. I therefore ask you to warrant an expenditure not exceeding \$2000 for salaries of these men. The amount of their pay has not yet been considered. I think it likely that the money required will not exceed \$1200. I cannot foresee any other cost connected with the establishment of the programme.

It is perhaps worth while to note that the institution of this programme would make available for instruction the Arnold Arboretum, the largest unused part of the University plant except the Observatory. I may say, further, that Mr. Pinchot will be very glad to have the arrangement made with the men who would teach with us.

I am particularly anxious to establish a programme in Forestry, for the reason that I foresee a risk of a reduction in the number of students in the Lawrence Scientific School next year. This reduction would be due to the fact that we have greatly increased the requirements for admission and have for years been endeavoring to diminish the number of special students, as well as those who are enrolled in the programme of General Science--it being the belief of the Administrative Board that all the men in the last-named programme should be in the College. From pride, as well as from considerations of policy, I am very desirous of closing the term of years in which the advance in the entrance requirements of the School has been made without loss of numbers. I believe the best, if in fact the only, way to accomplish this is by instituting this programme.

Yours very truly,

(Signed) N. S. Shaler

Dean of Lawrence Scientific School.

To the President and Fellows of Harvard College.

Copy.

Arnold Arboretum, Harvard University.

Jamaica Plain, Mass., June 15, 1903.

Dear Sir:-

I enclose an outline of the instruction which I would propose to give in the first half year of the course in Forestry which you have asked me to undertake. If it is not satisfactory I shall be very glad of suggestions for modification.

As I am asked to give the opening course to the students, and they are not supposed to have had previous instruction in that direction, I think I should give a brief account of the anatomy and physiology of trees, although this would come under other botanical courses. One or two lectures would cover this part of the course.

I think the chief aim should be to train the powers of observation and discrimination, besides giving the students a general idea of American tree life as related to forestry.

In this instruction special attention would be given to the available characters by which trees and shrubs of the forest may be known at all seasons. By such means a fair degree of familiarity with the dendrology of the eastern states should be acquired and be taken as a sufficient groundwork for the further studies and advancement of the student.

Yours very truly,

(Signed) J. G. Jack.

President Eliot,
Cambridge, Mass.

C O P Y

SYNOPSIS OF FIRST HALF YEAR IN FORESTRY COURSE.

Dendrology or Forest Botany - Lectures and Field Work.

Definition of a tree.

Anatomy of trees and other woody plants.

Physiology of tree growth; mode of growth and liability to variation according to species and differing climatic, soil and surrounding conditions.

Classification of trees into families, genera and species.

Most important kinds in American Forestry.

(The useful and valuable should be distinguished from the worthless or weedy species of trees and shrubs at all seasons and in all stages of growth.)

Identification by characteristics of foliage, flower, fruit, seeds, bark and general habit in summer, by buds and other features in winter; the geographical range and the other natural conditions under which the different species attain best development, and their comparative value for forestry purposes and economic uses.