Report of the Commissioners for the University of Virginia August 4, 1818 Thomas Jefferson

These are the objects of that higher grade of education, the benefits and blessings of which the Legislature now propose to provide for the good and ornament of their country, the gratification and happiness of their fellow-citizens, of the parent especially, and his progeny, on which all his affections are concentrated.

In entering on this field, the Commissioners are aware that they have to encounter much difference of opinion as to the extent which it is expedient that this institution should occupy. Some good men, and even of respectable information, consider the learned sciences as useless acquirements; some think that they do not better the condition of man; and others that education, like private and individual concerns, should be left to private individual effort; not reflecting that an establishment embracing all the sciences which may be useful and even necessary in the various vocations of life, with the buildings and apparatus belonging to each, are far beyond the reach of individual means, and must either derive existence from public patronage, or not exist at all. This would leave us, then, without those callings which depend on education, or send us to other countries to seek the instruction they require. But the Commissioners are happy in considering the statute under which they are assembled as proof that the Legislature is far from the abandonment of objects so interesting. They are sensible that the advantages of well-directed education, moral, political and economical, are truly above all estimate. Education generates habits of application, of order, and the love of virtue; and controls, by the force of habit, any innate obliquities in our moral organization. We should be far, too, from the discouraging persuasion that man is fixed, by the law of his nature, at a given point; that his improvement is a chimera, and the hope delusive of rendering ourselves wiser, happier or better than our forefathers were. As well might it be urged that the wild and uncultivated tree, hitherto yielding sour and bitter fruit only, can never be made to yield better; yet we know that the grafting art implants a new tree on the savage stock, producing what is most estimable both in kind and degree. Education, in like manner, engrafts a new man on the native stock, and improves what in his nature was vicious and perverse into qualities of virtue and social worth. And it cannot be but that each generation succeeding to the knowledge acquired by all those who preceded it, adding to it their own acquisitions and discoveries, and handing the mass down for successive and constant accumulation, must advance the knowledge and well-being of mankind, not infinitely, as some have said, but indefinitely, and to a term which no one can fix and foresee. Indeed, we need look back half a century, to times which many now living remember well, and see the wonderful advances in the sciences and arts which have been made within that period. Some of these have rendered the elements themselves subservient to the purposes of man, have harnessed them to the yoke of his labors, and effected the great blessings of moderating his own, of accomplishing what was beyond his feeble force, and extending the comforts of life to a much enlarged circle, to those who had before known its necessaries only. That these are not the vain dreams of sanguine hope, we have before our eyes real and living examples. What, but education, has advanced us beyond the condition of our indigenous neighbors? And what chains them to their present state of barbarism and wretchedness, but a bigotted veneration for the supposed superlative wisdom of their fathers, and the preposterous idea that they are to look backward for better things, and not forward, longing, as it should seem, to return to the days of eating acorns and roots, rather than indulge in the degeneracies of civilization? And how much more encouraging to the achievements of science and improvement is this, than the desponding view that the condition of man cannot be ameliorated, that what has been must ever be, and that to secure ourselves where we are, we must tread with awful reverence in the footsteps of our fathers. ... Nor must we omit to mention, among the benefits of education, the incalculable advantage of training up able counsellors to administer the affairs of our country in all its departments, legislative, executive and judiciary, and to bear their proper share in the councils of our national government; nothing more than education advancing the prosperity, the power, and the happiness of a nation.

Encouraged, therefore, by the sentiments of the Legislature, manifested in this statute, we present the following tabular statement of the branches of learning which we think should be taught in the University, forming them into groups, each of which are within the powers of a single professor:

column 1 I. Languages, ancient: Latin, Greek, Hebrew. II. Languages, modern: French, Spanish, Italian, German, Anglo-Saxon.

column 2 III. Mathematics, pure: Algebra, Fluxions, Geometry, Elementary, Transcendental. Architecture, Military, Naval.

column 1 IV. Physico-Mathematics: Mechanics, Statics, Dynamics, Pneumatics, Acoustics, Optics, Astronomy, Geography. V. Physics, or Natural Philosophy: Chemistry,

Mineralogy. VI. Botany, Zoology.
column 2 VII. Anatomy, Medicine. VIII. Government, Political Economy, Law of Nature and Nations, History, being interwoven with Politics and Law. IX. Law, municipal. X. Ideology, General Grammar, Ethics, Rhetoric, Belles Lettres, and the fine arts.

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Some articles in this distribution of sciences will need observation. A professor is proposed for ancient languages, the Latin, Greek, and Hebrew, particularly; but these languages being the foundation common to all the sciences, it is difficult to foresee what may be the extent of this school....

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The considerations which have governed the specification of languages to be taught by the professor of modern languages were, that the French is the language of general intercourse among nations, and as a depository of human science, is unsurpassed by any other language, living or dead; that the Spanish is highly interesting to us, as the language spoken by so great a portion of the inhabitants of our continents, with whom we shall probably have great intercourse ere long, and is that also in which is written the greater part of the earlier history of America. The Italian abounds with works of very superior order, valuable for their matter, and still more distinguished as models of the finest taste in style and composition. And the German now stands in a line with that of the most learned nations in richness of erudition and advance in the sciences. It is too of common descent with the language of our own country, a branch of the same original Gothic stock, and furnishes valuable illustrations for us. But in this point of view, the Anglo-Saxon is of peculiar value. We have placed it among the modern languages, because it is in fact that which we speak, in the earliest form in which we have knowledge of it. It has been undergoing, with time, those gradual changes which all languages, ancient and modern, have experienced; and even now needs only to be printed in the modern character and orthography to be intelligible, in a considerable degree, to an English reader. ... Fortescue Aland has well explained the great instruction which may be derived from it to a full understanding of our ancient common law, on which, as a stock, our whole system of law is engrafted. It will form the first link in the chain of an historical review of our language through all its successive changes to the present day,... a language already fraught with all the eminent science of our parent country, the future vehicle of whatever we may ourselves achieve, and destined to occupy so much space on the globe, claims distinguished attention in American education.

Medicine, where fully taught, is usually subdivided into several professorships, but this cannot well be without the accessory of an hospital, where the student can have the benefit of attending clinical lectures, and of assisting at operations of surgery. ... For the present, therefore, we propose but a single professor for both medicine and anatomy. By him the medical science may be taught, with a history and explanations of all its successive theories from Hippocrates to the present day; and anatomy may be fully treated. Vegetable pharmacy will make a part of the botanical course, and mineral and chemical pharmacy of those of mineralogy and chemistry. This degree of medical information is such as the mass of scientific students would wish to possess, as enabling them in their course through life, to estimate with satisfaction the extent and limits of the aid to human life and health, which they may understandingly expect from that art; and it constitutes such a foundation for those intended for the profession, that the finishing course of practice at the bed-sides of the sick, and at the operations of surgery in a hospital, can neither be long nor expensive. To seek this finishing elsewhere, must therefore be submitted to for a while.

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We are further of opinion, that after declaring by law that certain sciences shall be taught in the University... and the introduction also of other branches of science, when enabled by private donations, or by public provision, and called for by the increase of population, or other change of circumstances; to establish beginnings, in short, to be developed by time, as those who come after us shall find expedient. They will be more advanced than we are in science and in useful arts, and will know best what will suit the circumstances of their day.

We have proposed no formal provision for the gymnastics of the school, although a proper object of attention for every institution of youth. These exercises with ancient nations, constituted the principal part of the education of their youth. Their arms and mode of warfare rendered them severe in the extreme; ours, on the same correct principle, should be adapted to our arms and warfare; and the manual exercise, military manoeuvres, and tactics generally, should be the frequent exercises of the students, in their hours of recreation. It is at that age of aptness, docility, and emulation of the practices of manhood, that such things are soonest learnt and longest remembered. ...To these should be added the arts which embellish life, dancing, music, and drawing; the last more especially, as an important part of military education. These innocent arts furnish amusement and happiness to those who, having time on their hands, might less inoffensively employ it. Needing, at the same time, no regular incorporation with the institution, they may be left to accessory teachers, who will be paid by the individuals employing them, the University only providing proper apartments for their exercise.