Submitted by the Subcomittee on Science Requirements, Kin $\mathrm{H}_{4}$ 1957。

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Members: Behen, Cohen, Dehnbostel, DiTsa, Dykema, Ellis,
``` Evans, Malak, Miller, Reilly, Scudiex, Wilcox.
Chairman: Dr. Scudder.
NOTEs The Subcommittee came to unanimous agreement on all recommendations.
Io Integrated courses in mathematics and science.
It is recommended that the Committees appoint a standing committes which shall provice a detailed prospectus for and supervise the instruction of the following four courses. The committee should consist of one member each from the depertments of Mathematics, Physics, Chemistiry, and Biology, one nember from the dopartment of Fiucationg and one member to be rotated among other depardmentestarting with the School of Business Administration.
A. A 3ohour course in General Mathematicso
B. A 3whour course in Properties of Natter (Prerequisite: the above math course or its equivelent To Essentially physics and astronomy, possibly meteorology. Laboratory and lab. fee to be included.
C. A 3ohour course in Varieties of Matter (Ererequisjite: the above two courses or equivalent) o Essentially chenistry. metallurgy, geology. Laboratory and lab. fee to be included.
Do A 3whour course in Ifving Matter (Prerequisites the above three couses or equivalent) Study of form and function in living organisms. Laboratory and labo fee te be includedo
II。 Changes in curricula, 1958 .
It is recomended that the Committees initiate whatever actions are necessary in order to effectuate the following regulations for students entering the University in September, 1958, or later.
A. The major in Elementary Education shall include 9 hours of the integrated math and science program. This change shall be conditional on the following:
1. The courses shall be approved by the Committees.
2. The courses shall be approved by the Education Department.

Bo The major in General Business shall inelmia 17 homo nf tha 10

Ao Bastness Administration It is recmended that all other depertmat in the schoc. of Bustaes Admimistration enter the integrated program as soon as ia ieasible, but only with approval by that School.
Bs liberal Arts. It is recommended that the Conmittees examine the integrated program with the aim of deciding whether these courses are or can be the most suitable method of incorporating science in the liberal arts curricula. If not, some other mothod should be decided on and the problem settled as soon as possible。
IV. Physical Limitationss

The proposed science courses are to incluce some individual laboratory work and much demonstration. This will reguire more laboratory space than we now have, and properly designed lecture rooms outfitted for demonstrations. Furthermore, 211 departmerts of the School of Business Administiation, and possibly liberal arts, should eventually be included in the program. This will put sevare dernands not only on the physical plant but also on the teaching persomel, eapecialiy in the Mathematics Department. It is therefore recommended that the Comittees study the problems of facilities and personnel and make the above priposed changes with these limitations in mind.
V. Objectiveso

It is recommended that the Commitiees revise the University Cateleg to include the following statement in an appropriate place.

Courses in science are included in all our curriculvms because sciencs is an important part of modern culture. Such courses have a twofold furction: (1) To provide a knvoledge of certain facts vital to modern living-mnowledge which the lower schools do a good job of supplying-w, and (2) the primary purpose of the college programesto gain an understanding of the natural world and and of sciance itself. The insight and knowledge developec through the realization of this second function should provides
(1) An acquaintance with a selection of laws, hypotheses, and theories which will make possible further pursuit of the subject.
(2) An appreciation of the power and limitations of exact, thorough observation and rigdrously critical thinking, with sufficient practice to apply these procedures independentiy and to deal intelligentiy as a citizen with scientific advance. (3) An enrichnent of Iife through an appreciation of the workings of nature。

We propose that an honor society be established at The Youngstown University for the dual purpose of recognizing outstanding students in the liberal arts and eciences, and of encoraging superior students to distinguish themselves through high scholastic achievenent while pursuing a liberal education.

Candidates for election to the society must meet the following minimum requirements:
(1) They shall be seniors who are candidates for graduation and whose major ficld of study is one in the College of Arts and Sciences;
(2) Their honor-point average for all of their college work shall place them in the upper ten percent of their class, and shall not be below 2.5 , where a perfect record is reck ried to be 3.0 ;

Their honor-mpint average will be figured on courses completed up to the final twenty hours of degree requirements;
(3) Their record must demonstrate that their course of study has not been narrowly specialized, but has included a sufficient number of courses in both the arts and sciences th indicate a breadth and depth of study in several disciplines.

A student who meets the above minimum requirements will be eligible fon election into the society, but will not be assured of automatic admissjon, In addition, recommendations will be sought from department chairmen. Final determination of membership shall be by vote of a permanent faculty comittee which shall meet to review the individual records of students eligible for election.```

