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COLLEGE ENTRANCE REQUIREMENTS.

Chapter I.

AMOUNT AND FLEXIBILITY OF ENTRANCE REQUIREMENTS.

THE ADJUSTMENT OF HIGH SCHOOL AND COLLEGE.

The adjustment, or articulation, of the parts of a system is recognized as essential to the efficiency of that system. In fact, we can not properly speak of a system until the parts are in adjustment. The educational system is no exception. Unless the American high school and the American college are adjusted, we have no real educational system.

The adjustment of parts, each of which has a separate legitimate function, calls for a relationship that cripples none of the parts. But the relationship commonly existing between high school and college cripples both. The problem is a broad one, but the solution depends to a considerable extent upon the amount and flexibility of college entrance requirements.

RECOMMENDATIONS OF THE CARNEGIE FOUNDATION.

The Carnegie Foundation for the Advancement of Teaching has approached this problem from the point of view of both the college and the school, particularly urging upon the college that low and uncertain entrance requirements constitute one of the chief causes of college inefficiency and at the same time demoralize the high school and retard the development of four-year high schools.

The Foundation shows that the prescription of a rigid traditional course of study, as the only preparation for college, results in a large increase in the number of students admitted to college with entrance conditions, thereby crippling the college. Moreover, it also shows that strong colleges presuppose strong high schools, and that one of the conditions for the strengthening of the high school is the granting to it of greater freedom in adapting its instruction to the actual needs of boys and girls in attendance. Many communities demand that the instruction, while continuing to provide a sound education, shall be related more specifically to the industrial, commercial, social, and civic life of the community. The demand for the adaptation of education to changing conditions is not new and never has been



COLLEGE ENTRANCE REQUIREMENTS:

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long denied, but the need is now acute, because of the rapidity of recent social changes. Such adaptations will, it is claimed, strengthen secondary education, because the boys and girls will feel that their work is worth while, whether they go to college or not, and communities will be more generous in their support, making it possible to secure better schools with better teachers. Consequently the Foundation recommends:

First, greater insistence upon the completion of a four-year high-school course; and,

Second, greater freedom for the high school in selecting and organizing the subjects of instruction.

RECOMMENDATIONS OF THE COMMITTEE ON THE ARTICULATION OF IGH SCHOOL AND COLLEGE.

The same general conclusions are stated also by the Committee on the Articulation of High School and College. This committee approached the problem primarily from the standpoint of the high school, although it included members concerned also with college education. Their report attempts to state the distinctive function of the high school as a part of the educational system. It offers a definition of a well-planned high-school course and maintains that the satisfactory completion of such a course should be accepted as "preparation for college." This, report was adopted by the Secondary Department of the National Education Association in July, 1911, and has been strongly indorsed by those engaged in secondary education. Its recommendations have already begun to find adoption by colleges and State boards of education. The report is given in full in the appendix of this bulletin."

CHANGES IN ENTRANCE REQUIREMENTS.

Recent changes in entrance requirements are almost wholly in the direction of greater insistence upon the completion of a four-year high-school course and greater flexibility in entrance requirements, as recommended both by the Carnegie Foundation and by the Committee on the Articulation of High School and College. How far changes have progressed in these directions may be seen by comparing the tabulation in this bulletin with a tabulation given in Chapter XI of the Annual Report of the Commissioner of Education for 1896-97.

AMOUNT OF WORK REQUIRED FOR COLLEGE ADMISSION.

DEFINITION OF THE UNIT.

The discussion of the amount of work required for admission to college is greatly simplified by the adoption of a "unit" in terms of which all high-school work may be measured. Within the last few



' AMOUNT AND FLEXIBILITY.

years nearly all colleges have come to express their requirements in units. There still remains some variation in definitions of the unit, but the following definition is given in the fourth annual report of the Carnegie Foundation as the result of a conference between the officers of the Foundation and representatives of the National Conference Committee on Standards of Colleges and Secondary Schools:

"A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work."

This statement is designed to afford a standard of measurement for the work done in secondary schools. It takes the four-year high-school course as a basis and assumes that the length of the school year is from 36 to 40 weeks, that a period is from 40 to 60 minutes in length, and that the study is pursued for four or five periods a week; but, under ordinary circumstances, a satisfactory year's work in any subject can not be accomplished in less than one hundred and twenty 60-minute hours or their equivalent. Schools organized on a different basis can nevertheless estimate their work in terms of this unit.

Two hours of manual training or laboratory work are generally assumed to be equivalent to one hour of classroom work.

NUMBER OF UNITS REQUIRED FOR ADMISSION.

The following table gives the number of units required for admission by the colleges represented in this bulletin:

Units required.	Colleges of liberal arts.	Colleges of engineering	Colleges of agriculture.
14	39	27	. (`9
145	31	5	د 1
15	116	50	e- 21*
151	5		
16	12	3	
171	1	· · · · · · · · · · · · · · · · · · ·	
Total	204	85	31

From the foregoing definition of a unit a four-year high-school course can not exceed 16 units, since the time element is included in the definition. This limitation, however, is not intended to apply to students of exceptional ability. No mechanical rule may properly prevent such students from obtaining credit for four years of work when accomplished in three or three and one-half years. When a college requires more than 16 units for admission, either the college abandons the purpose of articulating with the four-year high school or else the term "unit" is used in a different sense from that here employed. The only college requiring more than 16 units is Bryn Mawf. How far this college abandons the purpose of articulating with the public high school may be seen from the fact that the



COLLEGE ENTRANCE BEQUIREMENTS.

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catalog issued in May, 1911, shows that in the freshman class of that year, containing 116 women, 97 received part or all of their preparation in special college preparatory schools or by private tuition, and of the remaining 19 all but 8 were prepared by the Girls' High School of Philadelphia.

The Committee on the Articulation of High School and College favored 15 instead of 16 units, with the proviso "that physical training and chorus singing should not be counted toward the 15 units.". For their statement of reasons, see page 99. The rules of the North Central Association of Colleges and Secondary Schools provide that a standard college must require at least 15 units.

Fourteen units is now generally regarded as the minimum number that may be required by a standard college.

STUDENTS PREMATURELY ADMITTED.

In this bulletin the number of units "required for admission" refers to the number that entitles an entrant to full freshman standing; but many colleges make a practice of admitting students who have not completed the "required" number of units. The presence in freshman classes of any considerable number of students thus prematurely admitted leads to modification of the instruction, resulting in lower standards for the whole institution, and works serious injustice to their classmates who completed the high-school course. The injury is not lessened by the fact that the students poorly prepared are conditioned. On the contrary, it is increased, because these, the weaker students, must take time from their regular work to devote to removing entrance conditions. Consequently, either the conditioned student is seriously overworked or the instruction is modified and the rest of the freshman class is underworked. If, as often happens, the removal of entrance conditions is made absurdly easy; the college virtually abandons the standard it professes. In view of these facts, the true measure of the standard of the college ought to be the number of units that must be completed before entering college rather than the number that entitles the entrant to admission "without condition." It is worthy of note that some of the stronger colleges are discontinuing the practice of admitting students who present less than 44 or 15 units.

NEED FOR FLEXIBILITY OF ENTRANCE REQUIREMENTS.

Even if the admission of students who have not completed 14 or 15 units of high-school work is discontinued, there is still another cause giving rise to entrance conditions. If the requirements are not flexible, many a student who has completed a high-school course, carefully planned from the standpoint of secondary education, finds that he has omitted subjects required by the particular college he seeks to enter, and that he has taken other subjects for which no



AMOUNT AND FLEXIBILITY.

credit is given. Consequently, he is entered as a conditioned student.

It has been pointed out that requiring the stident to make up conditions after he enters does not make it easier to start him off in college work. The difficulty of placing him in suitable classes is not lessened. The practical fact is that the college necessarily adjusts its organization to the students that it admits, whether they are classified as freshmen in full standing or as conditioned students; the entrance conditions merely act as a handicap to those who are assumed to be unprepared. The more satisfactory method would seem to be that of framing entrance requirements so broad as to give full standing to those whom the college proposes to admit, retaining only such essential requirements as the college authorities are willing to enforce.

Greater flexibility would not only eliminate the necessity of conditioning students, but would also do away with the complaint of the high school, namely, that the present rigidity of college entrance requirements exercises a restrictive influence upon the adaptation of secondary education to the needs of the communities supporting the high schools.

METHODS OF SECURING FLEXIBILITY.

Flexibility is secured by reducing the number of "prescribed subjects" and increasing the number of subjects for which credit will be given.

Prescribed subjects.-The old method was to, prescribe definite subjects with a definite amount of each.

The next method was to prescribe a definite amount of work in each of the main groups—English, mathematics, foreign language, science, and history—but to permit choice of the particular language, science, or history to be offered.

A recent method is to prescribe still fewer subjects, and to allow choice of the group or groups from which majors and minors are to be presented.

A number of colleges are leaving the selection of subjects entirely to approved schools.

Accepted subjects.—Formerly all the work was prescribed; there was no flexibility, and consequently no necessity for assigning credit for any additional subjects, bit now nearly all of the colleges permit several units to be chosen freely from a list of accepted subjects. In many colleges the list of accepted subjects is still so meager as not to include certain subjects that other colleges prescribe. An examination of this bulletin will show many such cases. Even if the high school were to regard its chief function as that of "preparation for college," it would still be embarrassed by the contradictions in the requirements of the various colleges. Frequently subjects are



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COLLEGE	ENTRANCE	REQUIREMENTS.

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omitted that specialists in secondary education and the public at large believe to be of prime importance in the education of all boys and girls. On the other hand, an examination of the tables in this bulletin shows that many colleges have included in their lists all subjects for which any considerable demand has been expressed.

Free margin.—A more recent method is to allow as part of the required number of units a free margin that may be made up of any subjects that an approved school counts toward graduation. This method of granting a free margin has certain advantages over the attempt to make a list of accepted subjects. (For a statement of the advantages of this method, see appendix, p. 100, sec. 5.) The following institutions whose requirements are given in this bulletin now grant a free margin of the number of units indicated:

INSTITUTIONS GRANTING & FREE MARGIN OF UNITS.

		TWENTY-EIGHT COLLEGES OF LIBERAL ARTS.	Units
	Ariz.	Arizons, University of	51
	Cal.	Leland Stanford Junior University (second method)	15
	m.	Chicago, University of	5
		Northwestern University.	2
	Ind.	De Pauw University	4
		Earlham College.	4
12		Franklin College	4
•		Hanover College	4
		Indiana University	5
		Wabaah College	5
	Mass.	Clark College	15
	Mich.	Kalamazoo College	1
		Michigan, University of (second method)	3
	Mínn.	Carleton College	7 A.B.
		The section of the se	B.S.
		Hamine University	15
		Macalester College	15
	NV	Alfund University	10
	N. I.	Firsts College	3
•	NC	Wake Forest College	11
	N Dak	Farm College	3
	Ohto	Ohio University	15
	011101		2 A.B.
		Ohio Weeleyah University	1 B.S.
	Oreg.	Reed College	15
an an		Willamette University	4
	Tenn.	Fisk University	31
	Wis.	Ripon College	1 B
		Wisconsin, University of	. / 1
		TEN COLLEGES OF ENGINEERING.	•./
	Arie	Arisons University of	Star R
	m.	Northwestern University.	7 2
	Ind.	Notre Dame University	$1\overline{1}$
	Me.	Maine, University of	4
	Mich.	Michigan, University of	8
S. Elster	the stand of		



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,	¢	,	Utita.	·
	N. H.	New Hampshire College of Agriculture and Mechanic Arts.	3	
	N. Mex.	New Mexico College of Agriculture and Mechanic Arts	6	
	N. Dak.	North Dakota Agricultural College	5	
	Pá.	Lafayette College	14	
	Wis.	Wisconsin, University of	1	
		REVEN COLLEGES OF AGRICULTURE.		
	Ariz.	Arizona, University of	74	
	Ga.	Georgia, University of	41	
	N. H.	New Hampshire College of Agriculture and Mechanic Arts.	3	
	N. Mex.	New Mexico College of Agriculture and Mechanic Arts.	6	'
	N. Y.	Syracuse University	54	
	N. Dak.	North Dakota Agricultural College	5	
	Wis.	Wisconsin, University of	1 .	•

DISTRIBUTION OF PRESCRIBED UNITS.

There is wide variation not only in the number of units prescribed, but also in the way in which these prescribed units are distributed. The adjustment of high school and college is considerably affected by this distribution. There is general agreement, both in theory and in practice, that the normal high-school course should include at least three units of English, one of natural science, and one of history or other social science. These five units, together with the two or two and one-half units of mathematics almost uniformly included, constitute one-half of the total number of units required for admission, and the prescription of these units has comparatively little effect in reducing flexibility except when the college specifies some particular science or epoch of history.

In 1899 the Committee of Terr on college entrance requirements recommended that the following ten units should be included in highschool course and college entrance requirements: "Four units in foreign language (no language accepted in less than two units), two units in mathematics, two in English, one in history, and one in science."

It is interesting to note in the following quotation from that report of 1899 that the foreigh-language requirement was even then a disputed point:

Few colleges, few committees, few boards of education will dissent from the proposition that every pupil should have at least one year of history, one year of some science taught by laboratory methods, and two years of English, including composition and literature; some will argue that there are those who can not master geometry, and yet, if one has the scholarship which will warrant the expenditure of four years in college, he will have the ability to assimilate algebra and geometry to the extent of two full years of work. The question of foreign language is a mooted one, and yet most intelligent people will agree that one foreign language—and that, too, pursued four years; og two, each followed two years—is valuable, if for no other purpose than to give the pupil an enlarged and more appreciative idea of our incomparable English. These constants are submitted, therefore, as important for every secondary school.

The introduction and development of new subjects has led to the induction and frequent omission of the foreign languages from courses















AMOUNT AND FLEXIBILITY.













	Colleges	Colleges
Nubject.	prescrib- ing it.	not socept- ing it.
Sixth unit of foreign language	5	i.
Seventh unit of foreign language	2	1.
Eighth unit of foreign language		i ju
Tenth unit of foreign language		I li
First unit of natural science		1
Second unit of natural science		3
Second unit of history	2	7
Drawing.	• •	1
ABOLITION OF ENTRANCE WITH		
 With flexible entrance requirements it, has 	s been found	d possible⊐
require the full 15 units and to admit no	students w	ith_entran
conditions. The University of Chicago now	admits no su	ich student
The University of Minnesota has a compre-	hensive líst	of accepte
subjects and admits no conditioned students	to the colle	ges of liber
arts and engineering. Reed College makes n	o p r escriptic	ons whatev
concerning the subjects to be offered for ad	mission, and	d its catal
for 1911-12 states: -	•	
The college has far greater interest in the grade of worl of his choice than in the particular subjects he happen	ca student dog vir choose. – A	s in the subject though there
The college has far greater interest in the grade of worl of his choice than in the particular subjects he happen no evidence sufficient to prove that a so-called college one that qualifies a student for college work, there is correlation between good work in school and good wo between success in studies and success in life.	castudent doe ctachose. A preparatory co s abundant ev ork in college,	s in the subject blough there ourse is the or ridence of clo as there is a
The college has far greater interest in the grade of work of his choice than in the particular subjects he happen no evidence sufficient to prove that a so-called college one that qualifies a student for college work, there is correlation between good work in school and good wo between success in studies and success in life. MEANING OF CATALOG STAT	castudent doe to choose. A preparatory co s abundant ev ork in college, EMENTS.	s in the subjection of the subjective of the original state of the original state of the subjective of
The college has far greater interest in the grade of word of his choice than in the particular subjects he happen no evidence sufficient to prove that a so-called college one that qualifies a student for college work, there is correlation between good work in whool and good we between success in studies and success in life. MEANING OF CATALOG STAT Do the requirements as published by the practice in admitting students, or are the subjects preferred? There is much confusi colleges rigidly enforce their printed statem discretionary power to some administrative subjects not mentioned in the eatalog. A substitutes will be considered, but general made, and the impression is conveyed th accepted. While secondary education is u it may be difficult for the college to make a	ca student doe to choose. A preparatory co s abundant ev rk in college, extension colleges in ey merely s on on this p ents. Othe officer, free few catalog ly no such nat substitu ndergoing r n exact stat	s in the subjective line is the or ridence of the as there is a dicator actual suggestive point. Sor rrs give lar ely accepti gs state the statement ites are m apid change



Chapter II.

COLLEGES OF LIBERAL ARTS.

This chapter contains a tabulation and analysis of the entrance requirements of 204 colleges of liberal arts, of which all but one confer the A, B, degree.

Preceding the tables a statement is made of important variations in the requirements in English, mathematics, foreign language, science, and history.

Table 1 is a summary showing the distribution of 203 colleges of liberal arts according to the number of units that they prescribe in each subject for admission to the A. B. course and also according to the number of units that they accept in each subject.

Table 2, and the supplementary notes following it, give the entrance requirements of each college.

The attempt has been made to include in this chapter the more important colleges of liberal arts, and only such colleges. The new plan of Harvard College is given on page 59, but the requirements have not been tabulated because the committee on admission at Harvard found it impracticable at present to state the requirements in units. A few other colleges that might properly have been included doubtless have been overlooked.

Of the colleges in this chapter, 138 are coeducational, including therein Brown University and Tufts College, which have separate departments for men and women but the same entrance requirements for both.

There are 45 colleges for men exclusively, including Columbia College and Adelbert College; and 20 colleges exclusively for women, including Barnard College and the College for Women of Western Reserve University.

DEGREES CONFERRED.

The following degrees are conferred by the colleges in this chapter: A. B. by 203 colleges, B. S. by 104, Ph. B. by 22, B. L. by 4, Litt. B. by 3, B. S. in Chem. by 2, B. Chem. by 1, LL. B. by 1, L. H. B. by 1.

Ninety-five colleges confer only one degree, 94 conferring A. B. only, and 1 conferring B. S. only.

One hundred and nine colleges confer two or more degrees: Seventysix confer A. B. and B. S. only; 18 confer A. B., Ph. B., and B. S.; 4 confer A. B. and Ph. B.; 4 confer A. B., B. L., and B. S.; and 7 confer various other combinations.



COLLEGE ENTRANCE REQUIREMENTS.

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In practically every case the same number of units is required for courses leading to the various degrees. A number of the colleges granting different degrees make no difference in the entrance requirements, and others make vory little difference in the work required in college.

TOTAL UNITS REQUIRED.

The average number of units required by the colleges in this chapter is 14.8.

In the following colleges, however, the number of units required depends upon the subjects offered:

At Princeton University history receives only half as much credit as an equal amount of other subjects. Consequently, the requirement is raised from (15 to 15) units if 1 unit of history is offered, and to 16 units if 2 units of history are offered.

At Yalo University and Boston University the requirement is r increased ong unit in case the student offers in addition to Latin both German and French.

At Dickinson College the requirement is 141 instead of -14 when advanced mathematics is offered instead of extra language or history, while at Williams College the requirement is raised when advanced mathematics is not offered.

At Dartmouth College two years of drawing is given only one year's credit.

At Boston University there are several variations, according to the electives offered.

At Union College the requirement is raised from 14 to 15 units if Greek is offered.

COLLEGES PRESCRIBING NO SUBJECTS.

- T.

Ten colleges do not prescribe any particular subject in case the applicant is a graduate of a fully approved high school: Leland Stanford Junior University (second method), Cal.; Grinnell College (second method), Iowa; Clark College, Mass.; University of Michigan (second method); Hope College, Mich.; Hamline University and Macalester College, Minn.; Ohio University; Reed College, Oreg.; and Whitman College, Wash.

Of these, Grinnell College, Hope College, and Whitman College publish a list of subjects to which selection must be confined, and the University of Michigan requires that 12 of the 15 units shill be chosen from such a list. The other six colleges do not confine the selection to any list.

ENGLISH.

All colleges that prescribe any subject whatever prescribe English, and it is the only subject prescribed by the University of Chicago and by Leland Stanford Junior University (first method).



COLLEGES OF LIBERAL ARTS. 21 Only seven colleges prescribe more than three units of English, viz: University of Idaho; Notro Dame University, Ill.; University of Minnesota; Carleton College, Minn.; Gustavus Adolphus Collego, Minn.; University of Montana; and University of Washington (for B. S. only). On the other hand, there are 114 colleges that give no credit for work in English in addition to the three prescribed units. MATHEMATICS. Every college that prescribes any subject other than English prescribes mathematics. Only 19 colleges prescribe different amounts of mathematics for different courses. In this bulletin, and in nearly all college catalogs, the following values are assigned to the various prescribed mathematical subjects: (a) Elementary algebra (b) Plane geometry 1 unit. 1 unit. (c) Intermodiate algebra h unit. (d) Solid geometry..... $\frac{1}{2}$ unit. (e) Trigonomotry ... 12 unit. (f) Advanced algebra 1 unit. Exceptions: Bucknell University evaluates (d) at 1 instead of 1. Central University of Iowa and Ripon College evaluate (b) and (d) combined at 1 instead of 11. Eleven colleges evaluate (a) and (c) sombined, together with such reviews at they desire, at 2 instead of 12, but (a) and (c) combined are uniformly evaluated as 12 in this bulletin, and the fact that the college has a different evaluation is indicated in Table 2 by a note. 1 There is practical unifermity in the combination of subjects required under 2, 21, 3, 31, and 4 units, respectively: 2 units denote (a) and (b). Exceptions: Central University of Iowa and Ripon College require (a) and count (b) and (d) combined as 1. 21 finits denote (a), (b), and (c). Exception: Howard University B. S. (second method) requires (a), (b), and (d). **3** units denote (a), (b), (c), and (d). Exceptions: Alfred University B. S. requires (a), (b), (d), and (e). Johns Hopkins University A. B. requires (a), (b), (c), and (c). West Virginia University B. S. allows a choice between (d) and (e). 31 units denote (a), (b), (c), (d), and (e). 4 units denote (a), (b), (c), (d), (e), and (f). Trigonometry is prescribed for the A. B. course only by Manhattan College and Johns Hopkins University; for the B.S. course only by Notre Dame University, New York University (section 3), Kenyon



COLLEGE ENTRANCE REQUIREMENTS.

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College, Lafayette College, and Ursinus College; for the B. S. in Chem. by Syracuse University; and for B. Chem. by Cornell.

Advanced algebra is prescribed by Kenyon College for the B. S. and by Cornell University for the B. Chem., but it is not prescribed by any college for admission to the A. B. course.

FOREIGN LANGUAGE.

The largest variation in prescribed units occurs in foreign language, as may be seen in Table 1. Here also lies serious difficulty in the adjustment of school and college. The present tendency is to reduce the amount of foreign language, both in the high-school course and in college entrance requirements, and to permit choice between ancient and modern language.

On account of the need for high-school courses planned with not more than two or three units of one foreign language, and also for the information of students who are now completing such a course, a list of colleges of liberal arts that will admit such students is given below.

From this list we find that a student who can offer no Greek or modern language and only three units of Latin can meet the foreign language requirement of 105 colleges of liberal arts and may become a candidate for the A. B. degree in 82 of these colleges.

Similarly, a student who can offer no Latin and only three units of German can meet the foreign language requirement of 110 colleges of liberal arts and may become a candidate for the A. B. degree in 73 of these colleges.

Moreover, there are 22 colleges of liberal arts to which a student may be admitted without any language other than English, and he may become a candidate for the A. B. degree in 18 of these colleges.

Number of colleges of liberal arts whose foreign language requirement may be met by the student who offers only one foreign language in amount indicated.

-7 -6 - -9 -6 -	Language.	Number of college sdmit- ting.	s admitting to A. B. course.
Three units of- Latin Greek German French Shanish Wo units of- Tatin Greek Greek Spanish Spanish Trench Spanish Oforsign language		105 89 110 105 68 77 68 82 82 84 84 84 84 84 84 84 84 84 84 84 84 84	8,777 777 8,4 8,4 8,4 8,4 8,4 8,4 8,4 8,4 8,4 8,4
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	COLLE	GES OF LIB	ERAL ARTS.	25
LIS	T OF 114 COLLEGES N FOREIG	NOT REQUIR	ING MORE THAN 3 E-Continued.	UNITS OF
	THREE	UNITS REQUI	RED-Continued.	•
		(To include L	tin 2.)	١.
Nebr.	Doane College.	1 D.	C. Howard University.	
	(Three of one	language: Lat., C	k., Ger., Fr., or Sp.)	
Ind.	De Pauw University.	I	▼	
Nebr.	University of Nebraska.	l 	01 (1 P-)	
	(Three of of	ne language: 1.at.,	(IR., CHET., OT 17.)	
Ind. Kans.	College of Emporia.	İ		
	(Thru	e of one language:	Lat. or Ger.)	•
Kans.	University of Kansas.	I.		
	Bethany College.	1	•	
		(Latin 3.)		
Idaho. Kans	University of Idaho. Baker University		•	•
	Washburn College.		1	
La. ' Mo.	Tulane University of Louisian Missouri Valley College.	ia. 🖌	•	• •
	THRE	E OR FOUR	NITS RHQUIRED.	•
Conn.	Wesleyan Udiversity. ¹	N.	J. Rutgers College. ⁶	
nd.	Indiana University.*	N.	Y. Colgate University.	- ·
Mass. N.Y.	Adelphi College.*	A .	1. Synactise Chiveralty.	· /
Γex.	University of Texas.4			
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	•	For the A. B.	course.	
On	ly 94 colleges prescribe an	y natural scien	ce for the A. B. course	: /
3	colleges prescribe $\frac{1}{2}$ unit-	. D. C	Anghabaranian and an and and	and accounts
	other mience.	. D. C. abecu	ica pri yearat Reciknapny	and accepts no
	Union University, N.	Y., specifies pi	viology and accepts n	o other science.
1 11	ill admit to the A D course of T	At 4 00 02 3		
* Th	ree of one language, or 2 of each	of two of the follow	ing language: Lat., Gk., G	er., and Fr.
1 1.6	t. 4, or 3 of Gk., Ger., Fr., or Sp.	f the follow	ine langenta mini Tati Gir Ga	r Fr and Sn
• Th	res of one language, or 2 of each (of two of the follow	ing languages: Lat., Ger., a	nd Pr.
Th	ree of one language: Ger., Fr., 5	p., or Italian, or	Lat. 2 and 2 of the followin	g: Ger., Fr., Sp., or 👘 🌅
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	26 COLLEGE ENTRANCE BEQ	UIREMENTS.
	77 colleges prescribe 1 unit-	Α
	51 allow choice of any science given in the	table as manining and it
	2 allow choice of any laboratory science	came as receiving credit.
	2 allow choice of any advanced laboratory	acience
	1 allows choice of physics, chemistry, bot	8NV. 20010EV or physiology
	1 allows choice of physics, chemistry, 1 zoology 1.	botany, zoology, or botany 1 and
	2 allow choice of physics, chemistry, bots	ny, or zoology
•	1 allows choice of physics, chemistry, bo	any, or biology
	1 allows choice of physics, chemistry, or	botany.
	3 allow choice of physics, chemistry, or b	iology
	5 allow choice of physics or chemistry.	
	8 specify physics.	
	1 college prescribes 11 units-	
	Augustana, III., allows choice of sciences	tabulated as accepted.
	12 colleges preacribe 2 unite-	
•	4 allow credit for any sciences tabulated Colorado, Colorado College, Catholic U Manhattan College, N. Y.	as accepted, viz, University of niversity of America. D. C., and
	Trinity University, Tex., specifies physic	or chemistry 1, physicoraphy 1
	and physiology 1.	in physiography 2,
	Central University of Iowa-specifies physic or physiography 1.	1, botany 1, and either zoology
	The colleges in Kansas require 1 unit of p	hysical science and Lunit of his
	logical acience.	
	Lebanon Valley College, Pa., specifies pl	ysics and chemistry for students
	specializing in science.]	1
	Otterheis IV is ante-	-da S
	Otterbein University, Ohio, allows choice	of sciences tabulated as accepted.
-	For other courses.	n
-	Of the 94 colleges that prescribe science for the A.	B. course 36 prescribe additional
	science for the B. S. Of the 109 colleges that do not preacribe science	or the A. P. several co.
	science for one or more other courses. Only 5 colleges prescribe more than two with the	or the A. D. course, 20 prescribe
	arts, viz, Central University of Iowa B S Alford I	science for any course in liberal -
,	College, Ohio, B. S., Otterbein University Ohio A	Priversity, N. Y., B. S., Denison
		b., Grove City College, Pa., B. S.
	HISTORY	. P
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	For the A. B. course.	B
	Of the 203 colleges conferring A. B., 163 prescribe	bistory: 2a
	1 college prescribes 1 unit-	PI
	Bates College, Me., specifies Roman history	1. 🗉 📮 👘 🕅
	130 colleges prescribe 1 unit—	D
	102 allow choice of several history cousses.	· · · ·
	12 specify ancient history.	
	specify United States history and civics.	· · · · · · · · · · · · · · · · · · ·
# 23	2 specify European history.	
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	-	SUPPLEMENTARY NOTES.	
	1.	University of Alabama, University, Ala.	
1		A. B. Requires Latin 3, and 2 of German or French.	
		* Latin 4 is desired. If Greek is taken in college, German or French need not be	
		presented.	
	•	B. S. Requires German 2 or French 2 or Latin 4.	
	2.	University of Arizona, Tucson, Ariz.	
		Requires 2 of one language: Latin, Greek, German, French, or Spanish.	•
l		Specifies physics or chemistry or biology.	
1 :	3.	University of California, Berkeley, Cal.	
		A. B., B. L. Requires 4 of foreign language, including Latin 2.	
		B. S. Requires 4 of foreign language.	
l		Specifies an advanced science with laboratory work.	
		Specifies United States history and civics.	
		Limits sum of economics, snopwork, household economics, agriculture, business,	•
<b>.</b>		and music to 3. Leland Stanford Junior University, Stanford University, Or	
	*.	Second method, "Undermeduate standing —itheut further tests is marted to	
		second method. Undergradiate standing, without further tests, is gradied to	
		amounting to not less than 15 ontrance units, and who are fully recommended	
		to the university "	
	5	Mille College Mille College Col	
	σ.	A. B. Requires 4 of classical language including Latin 2	
		B. L. Requires 4 of foreign language, including Latin 2.	
		B. S. Requires 4 of foreign language.	
		Specifies laboratory science of third or fourth year.	
		Course in home economics specifies physics and requires free-hand drawing 1.	
	6.	Occidental College, Los Angeles, Cal.	
		Requires 2 of one language: Latin, Greek, German, French, or Spanish.	
		Specifies physics, chemistry, botany, zoology, or physiology.	
[		Limits sum of shopwork, household economics, agriculture, business, and music	
		to 3.	•
, .	7.	Pomona College, Clargemont, Cal.	
		Requires 2 of one language: Latin, Greek, German, or French.	
		A. B. Requires 2 of foreign language and English in addition to foreign lan-	
		guage 2 and English 2.	
		B. S. Requires 2 of mathematics and laboratory science in addition to math-	
		ematics 2 and science 1.	
		Limits sum of botany, zoology, biology, physiography, and physiology to 2.	•
5	•	Limits sum of shopwork, household economics, agriculture, and business to 3.	•
	в.	University of Southern California, Los Angeles, Cal.	
		Requires 2 of one language: Latin, Greek, German, French, or Spanish.	
		Considention given to publicate not mentioned	
	0	University of Colorado, Boulder, Colo	
		Requires 4 of me language or of two combined	
		Students presenting Greek 3 need not offer more than 1 of enience	
}		Limits sum of economics and vocational subjects to 3	
		Substitutes may be allowed for some of the meanibed work in case 15 units of	
		accepted work is offered.	
		The colleges of commerce and education have the same requirements as the	3
		college of liberal aris.	
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a	54	COLLEGE ENTRANCE REQUIREMENTS.	
14	10	Colorado Collega Colorado Springe Colo	
	10.	Requires 4 of foreign language, including Latin 2	
		If Greek is offered, not more than 1 of science is required.	
÷.,	.11.	University of Denver, University Park, Colo.	
	·	Requires 4 of foreign language.	
. • 1	•	Specifies physics.	
		Limits sum of botany, zoology, and physiology to 2.	
	۰.	Limits sum of physiography, geology, and astronomy to 2.	
1		Substitutes for any of the prescribed work will be accepted from the list of	
1		subjects tabulated as accepted.	
1.5	12.	Trinity College, Hartlord, Conn.	
0.0		Requires 4 of foreign language, of which 5 for the A. D. must be classical.	
5		course of study (including English methamatics and faroign languages)"	
		may be admitted by a special examination plan	
•	13.	Weslevan University, Middletown' Conn.	
		A. B. Requires Latin 4 or Greek 3.	
ì		B. S. Requires 2 of German or French.	
		A. B. Specifies ancient history.	
	14.	Yale University, New Haven, Conn.	
		Requires Latin 4, and 2 of German or French.	
		If both German and French are offered, 164 units instead of 154 are required.	
, ·	15.	Catholic University of America, Washington, D. C.	
	10	Requires Latin 4, and 3 of Greek, German, or French.	
ĸ	10.	Georgetown University, washington, D. C.	
		or Spanish	
		Specifies physicoraphy 1	
		Specifies United States history and civics, ancient, English, and Biblical	
		history	
	17.	George Washington University, Washington, D. C.	
		Requires 2 of one language: Latin, Greek, German, French, or Spanish.	
	18.	Howard University (for colored), Washington, D. C.	
		A. B. Requires Latin 4 and Greek 2.	
 		B. S. (First method.) Requires Latin 4, and 1 German or French.	
1		B. S. (Second method.) Requires 3 of foreign language, including Latin 2;	
		and required mathematics compasses of angeora 1 and plane and solid geom-	
		One unit credit given for any work at discretion of college	
•	19.	Trinity College, Washington, D. C.	
		- Requires Latin 4, and 3 of Greek, German, or French.	
	20.	John B. Stetson University, Deland, Fla.	
140 35		A. B. Requires 4 of foreign language.	1
	*.	B. S. Requires 3 of foreign language.	
	- 1	Accepts 3 of drawing and shopwork from technical students.	
	21.	University of Georgia, Athens, Ga.	
	oo'	Requires Latin 3, and 2 of Greek, German, French, or Spanish.	
4	22.	Agnes Scott Vollege, Decatur, Us. Requires Latin 2 and 2 of Greek German or French	
		Requires 1 of edvanced mathematics advanced language physics or chemister	
	23	Emory College, Oxford, Ga.	
and the second		A. B. Requires Latin 3 and Greek 2.	
5		Ph. B., B. S. Requires Latin 3 and French 2.	
17 G.	•	Specifics ancient history.	-
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## COLLEGES OF LIBEBAL ARTS

55 24. University of Idaho, Moscow, Idaho. A. B. Requires Latin 3. B. S. Requires 2 of one language: Latin, German, French, or Spanish.
B. S. Requires 2 additional units selected from English, mathematics, foreign language, science, and history. 25. University of Illinois, Urbana, Ill. The work in liberal arts is divided between two colleges, "literature and arts" and "science," both of which give the A. B. degree. "Science" gives B. S. also. "Literature and arts." Requires 3 of foreign language, including 2 in one . language: Latin, Greek, German, French, or Spanish. "Science." Does not require foreign language, except that chemical engineering requires German 2. Limits sum of shopwork, household economics, agriculture, bookkeeping (1), and business (1) to 2 for "literature and arts," and to 3 for "science." Drawing 1 and commercial geography 1 may be presented in addition. 26. Augustana College, Rock Island, Ill. Requires 3 of foreign language, including 2 of one language: Latin, Greek, German, or French. Accepts Swedish 4, history of education 1, and Christianity 1 to 2. 27. University of Chicago, Chicago, Ill. Requires 2 academic majors (of which English shall be one) of 3 units each, and one academic minor of 2 units. Requires at least 10 units of academic work and accepts for the other 5 units any work that an approved school counts for graduation. 28. Illinois College, Jacksonville, Ill. Requires 3 of foreign language, including 2 of one language: Latin, Greek, German, or French. Specifies a laboratory science. 29. James Millikin University, Decatur, Ill. A. B. Requires (a) 3 of one language: Latin, Greek, German, or French, or (b) 3 of foreign language, including Latin 2. B. S.* Does not require foreign language." 30. Knox College, Galesburg, Ill. Requires 3 of foreign language, including 2 of one language: Latin, Greek, German, or French. 31. Lake Forest College, Lake Forest, Ill. Requires (a) 4 of one language: Latin, Greek, German, or French, or (b) 4 of foreign language, including 2 of Latin or Greek. 32. Monmouth College, Monmouth, Ill. A. B. Requires 4 of classical language. B. S. Requires 4 of foreign language, including 2 of Latin or Greek. Specifies ancient history 1, and civics or American history or English history 1. 33. Northwestern University, Evanston, Ill. Requires Latin 4, or 4 of two languages combined: Latin, Greek, German, French, or Spanish. Accepts 2 of vocational subjects and other work not specified, but commercial geography } and commercial law } may be presented in addition. 34. Rockford College, Rockford, Ill. A. B. Requires Latin 4 and 2 of Greek, German, or French. B. S. Requires Latin 2 and 2 of German or French. B. S. Specifies physics or chemistry. A. B. No credit given for science unless physics or chemistry is included.



292	56	COLLEGE ENTRANCE REQUIREMENTS.
	35.	Indiana University, Bloomington, Ind.
-		Requires 3 of one language, or 2 of each of two languages: Latin, Greek, German, or French.
	<b>S6</b> .	Purdue University, Lafayette, Ind.
		Gives only the B. S. degree.
		Requires 2 of one language: Latin, German, or French.
	37.	Butter College, Indianapolis, Ind.
	98	German, French, or Spanish. No credit given for one unit of Latin.
	00.	Requires 3 of one language: Latin Greek Corman Erspoh or Spanist
N		Specifies United States history and civics 1 and ancient history 1
	<b>3</b> 9.	Earlham College, Richmond, Ind.
		Requires 2 of one language: Latin, Greek, German, French, or Spanish
		Specifies physics, chemistry, botany, or biology.
		Requires two academic majors (of which English shall be one).
		Requires at least 11 units of academic work.
	40.	Franklin College, Franklin, Ind.
		Requires 2 of one language: Latin, Greek, German, French, or Spanish.
		Requires two academic majors (of which English shall be one).
	41.	Hanover College. Hanover. Ind
		Requires 3 of one language: Latin, Greek, German, or French
	<b>4</b> 2.	Notre Dame University, Notre Dame, Ind.
	•	A. B., Ph. B., Litt. B., and B. in Journalism. Requires Latin 4, and 3 of Greek, German, or French.
		B. S. Requires Latin 2, and 2 of German or French.
÷.		B. S. Specifies physics or chemistry.
		D. S. Requires drawing j.
		which are given as receiving credit
	43.	Wabash College, Crawfordeville, Ind
		Requires 3 of foreign language.
	44.	State University of Iowa, Iowa City, Iowa.
		Requires 2 of one language: Latin, Greek, German, French, or Spanish.
		Limits sum of natural science and agriculture to 41.
		Limits sum of advanced arithmetic (1), double-entry bookkeeping (1), com-
		mercial geography $(\frac{1}{2})$ ; commercial law $(\frac{1}{2})$ , and industrial history $(\frac{1}{2})$ to 2.
		nography (1) to 2
	45.	Central University of Iowa, Pella, Iowa
		A. B. Requires Latin 4 and Greek 2.
	-	Ph. B. Requires Latin 4 and German 2.
		B. S. Requires Latin 3 and German 2.
		Plane and solid geometry are required and counted together as one unit
-,		Specifies physics 1, botany 1, and zoology or physiography 1.
		B. S. Specifies also chemistry 1.
<b>``</b>	3.4	Specines United States history and civics 1, and ancient history 1.
	-44	Accepts entrer zoology or physiography, but not both.
		A B Requires Latin A or A of two local
-		B. S. Requires 2 of one languages: Latin Grant Gamman Day 1
	e î	Accepts nature study 1 and pedagory 1
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COLLEGES OF LIBERAL ARTS.	57
47. Cornell College, Mount Vernon, Iowa.	2
A. B. Requires 4 of foreign language, including Latin 2.	
B. S. Requires 2 of foreign language.	;
48. Des Moines College, Des Moines, Iowa.	
A B. Requires 4 of foreign language.	<b>F</b>
Ph B Requires 3 of foreign language.	
/ R.S. Requires 2 of foreign language.	
One unit of Latin will not be accented	-
10. Droke University, Des Meines, Jours	
49. Drake University, Des Biomes, Iowa.	Green ?
A. B., FR. D. Requires 4 of Latin of Ortex, of Latin 2 and 5	n Gmok Gormen
B. S. Requires 2 of one language of of two contoined. Lan	i., Greek, German,
or French.	_
Accepta Swedish 2, Danish-Norwegian 2, Icelandic 2.	·
50. Grinnell-College, Grinnell, Iowa.	
A. B. Requires 4 of foreign language, including 2 of on	e language: Latin,
Greek, German, or French.	
B. S. Requires 3 of foreign language, including 2 of on	e language: Latin,
Greek, German, or French.	•,
Accepts under business only double-entry bookkeeping 1.	
Second method. A student who is recommended as a gradus	ate of an accredited
high school of excellent standing will be admitted on any	fifteen units tabu-
lated as accepted	
51 Morninggide College *Sion City Jows	
Requires 2 of one language: Latin Greek German, or Fren	ch.
To Design College Englished Journ	
bz. Parsons Conge, rainen, iowa.	
Requires 2 of one language. Latin, there, of definant.	
Specifies physics.	``
53. Penn College, Oskaloosa, Iowa.	
A. B. Requires 4 of Latin or Greek, or of Latin and Greek	combined.
Ph. B. Requires $(a)$ 4 of Latin or Greek, or $(b)$ 2 of Latin,	and 2 of German or
French.	
B. S. Requires 2 of one language: Latin. Greek, German,	, or French.
54. University of Kansas, Lawrence, Kans.	
Requires Latin 3 or German 3.	
Specifics a physical science 1 (physics, chemistry, or physic	ography), and a bio-
logical science 1 (botany, zoology, or physiology).	•
Additional credit for vocational subjects, psychology, and	l pedagogy may be
allowed when work is specially approved.	-
55 Beker University Baldwin Kana	
ball baker University, Daidwin, Kans.	
Requires Latin 5.	Kones
Specifies science in the same manner as the University of I	Callone.
56. Bethany College, Lindsborg, Kans.	
Requires Latin 3 or German 3.	4 TZ
Specifies science in the same manner as the University	OI KANSAS, DUL WILL
accept also botany $\frac{1}{2}$ and zoology $\frac{1}{2}$ for the required biolo	gical science.
57. College of Emporia, Emporia, Kans.	
Requires 3 of one language: Latin, Greek, German, or Fren	nch.
Specifies science in the same manner as the University of I	Kansas, .
58. Fairmount College, Wichita, Kans.	•
Require 3 of foreign language, including 2 of one lang	uage: Latin, Greek,
German, or French.	an amerified by the
German, or French. If Greek 3 is not offered. 2 units of science must be offered	
German, or French. If Greek 3 is not offered, 2 units of science must be offered University of Kaness, Will accent also before 1 and	sociery & for the
German, or French. If Greek 3 is not offered, 2 units of science must be offered University of Kansas. Will accept also botany $\frac{1}{2}$ and equival biological science	soology i for the
German, or French. If Greek 3 is not offered, 2 units of science must be offered University of Kansas. Will accept also botany $\frac{1}{2}$ and required biological science.	soology i for the



2 2	<b>5</b> 8	COLLEGE ENTRANCE REQUIREMENTS.
	59.	Washburn College, Topeka, Kans.
		A. B. Requires Latin 3.
		B.S. Requires 3 of foreign language, including 2 of one language: Latin,
		Greek, German, or French.
	80	Specifies science in the same manner as the University of Kansas.
	00.	A B Dequire Lexington, Ky.
		R. B. Doouing 2 of foreign lainguage
		Accents surveying 1 and teaching experience 1
	61	Central University of Kentucky Danville Ky
	•••	A. B. Bequires 4 of foreign language including Latin 3
		B. S. Requires 2 of one language: Latin Greek German French or Spanish
	62.	Georgetown College, Georgetown, Ky.
		A. B. Requires 4 of foreign language, including Latin 3.
1		B. S. Requires 2 of one language: Latin, Greek, German, French, or Spanish.
a B		Accepts surveying } and six months' teaching experience from holder of first-
		class certificate 1.
	<b>63</b> .	Louisiana State University, Baton Rouge, La.
		Requires Latin 2, or 1 of Greek, German, French, or Spanish.
	<b>64</b> .	Tulane University of Louisiana, New Orleans, La.
		A. B. Requires (a) Latin 3 and Greek 2, or (b) Latin 3, science 1, and history 1.
		B. S. Requires 2 of one language: Latin, German, French, or Spanish
		<b>B.S.</b> Requires (a) 2 of history or $(b)$ third unit in the foreign language pre-
		sented and an additional unit of mathematics.
	00.	University of Maine, Urono, Me.
		two: Latin Greek Corman Dearch or Smalls
	88	Retes College Lewiston Me
	ω.	A B Requires Latin 4 and 2 of Greek German or French
		B. S. Requires 2 of German or French
		A. B. Specifies Roman history 4
ъ.		B. S. Specifies United States history and civics 4.
		Allows only 1 unit credit each for English history, United States history and
		civics, Greek history, and Roman history.
		New Harvard Plan also offered as an alternative method.
	67.	Bowdoin College, Brunswick, Me.
		A. B. Requires Latin 3, and 2 of Greek, German, or French.
		B. S. Requires 2 of one language: Latin, Greek, German, or French.
		A. D. Specifics Roman history 2.
	•	anows only 2 unit credit each for English history, United States history and
	- 69	College Waterville Me
	ųġ,	A. B. Requires Latin 4 and Grack 3 or German 2 or Demak 2
		B. S. Requires 2 of German or French
		A. B. Specifies Roman history 4.
-		Allows only 1 unit credit each for English history. United States history and
÷		civics, Greek history, and Roman history.
	69.	Goucher College, Baltimore, Md.
		Requiree Latin 2, but Latin 41 is preferred.
	70.	Johns Hopkins University, Baltimore, Md.
- Contractor		Requires 3 foreign languages unless both Latin and Greek are offered: Latin 4,
	•	and either Greek 3, or both German 14 and French 14.
A. S. S. S.	1	Specifies English and United States history and civics 2, or ancient history 2.
		Specifies algebra 13, plane geometry 1, and trigonometry 4.
		Freenand drawing also required, but not assigned value in units.



COLLEGES OF LIBERAL ARTS. 59	
7] Amharat Calleon Amharat Masa	
A. B. Requires Latin 4 and Greek 3. or two foreign languages, including either	,
Latin 4 or Greek 3. If both Latin and Greek are not offered, one advanced	l
subject is required. See catalogue for details.	
B. S. Requires Latin 3, and 2 of German or French.	
A. B. Specifies ancient history.	
B. S. Specifies physics or chemistry.	
B. S. Electives must include 1 of an advanced subject. See catalogue.	
B. S. Will be discontinued after September, 1913.	
A B Requires Latin 4 and 2 of German or French	
Litt. B. Requires Latin 3, and 2 of German or French.	•
B. S. Requires German 3 and French 2, or German 2 and French 3.	
Litt. B., B. S. Specifies physics.	
A. B. Specifies ancient history.	
B. S. Specifies United States history and civics, English history, and ancien	t i
history.	_
alcostives must be chosen for A. B. or B. 5. and four for Ph. B., but these	3 🖈
frequently increasing the total number of required units. For details are	,
estalorue.	,
73. Clark College, Worcester, Mass.	
Makes no requirement in terms of specific subjects, but admits graduates o	f
approved high schools if satisfied that the student is capable of doing the	э '•'
college work.	
Harvard College, Cambridge, Mass.	
According to the new plan the student must submit his high-school record and	1
The subjects are as follows:	
(1) English	
(2) Latin, if a candidate for A. B.; German or French, if a candidate fo	r
B. S.	
(3) Mathematics or a science.	
(4) Mathematics or science, if not offered under (8); or history or a second	i
foreign language.	•
His program must show that he devoted his time chiefly to English, foreign	1
language, mathematics, science, and instory, that none of these subject	5.
advanced point	
The candidate, if admitted, will be admitted without condition.	• .
The old plan for admission is also continued.	
74. College of the Holy Cross, Worcester, Mass.	•
Requires Latin 4, and 3 of Greek, German, or French	•
Specifies United States history and civics, English history, and ancient history	•
Elective unit must consist of advanced mathematics or chemistry or physics, 1	•
75. Mount Holyoke College, South Hadley, Mass.	
Requires Latin 4, and 5 of Greek, German, of French.	
nhouse or chemistry or hotany or tuneic	
76. Smith College, Northampton, Mass.	
After 1912, 144 units are required as follows: English 3. mathematics 24. history 1	6
Latin or Greek 4, and elective 4. The 4 elective units may consist of: (a) 4 c	س 1
a second language: Latin, Greek, German, or French; (8) 3 of a second	1
language: Latin, Greek, German, or French; and 1 of German, French	<b>b</b>
	1. 1. 5.15



60	COLLEGE ENTRANCE REQUIREMENTS.
	chemistry, physics, botany, zoology, astronomy, geography, music, advanced
	English, advanced mathematics, advanced history, advanced Latin, or
	advanced Greek; (c) 4 selected from: Greek 2, French 2, German 2, history
	2, chemistry 1, physics 1, botany 1, zoology 1, and astronomy 1.
77.	Tufts College, Tufts College, Mass.
	A. B. Requires Latin 4 or Greek 3.
	B.S. Bequires 2 of one language: Latin Greek German or French
•	A senerate college known as lackson College is provided for momen
	The entropic requirements are the surface access that always and in the surface of the surface o
	for admission to Isalasan Callege
70	Wellesley Cellere Wellesley Mars
78.	Devices Lei A at 19 of Cash Cash and the Cas
	Requires Latin 4, and 3 of Greek, German, or French. Spanish 3 would prob-
	ably be accepted.
	Elective unit must consist of a third language or science or history or music.
•	In 1914 the foreign language requirement will be reduced to 6, and 2 of science
	accepted, if offered.
79.	Williams College, Williamstown, Mass.
	Requires Latin 4, and Greek 3 or German 2 or French 2.
	Specifies ancient history.
	If 3 of Greek, German, or French, and advanced mathematics have offered the
	student will be admitted on 14 units. Otherwise 144 to 16 units are required
	and college credit sometimes given for the excess
	For details, see catalogue
80	University of Michigan Ann Arbur Mich
ω.	No applicant will be admitted who presents less than 15 miles
	First method. Desuine 9 of the languages Let's (2.1.1.1)
	First method: Requires 2 of one language: Latin, Greek, German, French, or
	Spanian.
	Specifies physics, chemistry, botany, or zoology.
	Requires two academic majors of 3 units each; 2 of mathematics and 1 of
	physics are accepted as one major, in which case a second unit of science
	is required.
	Accepts half units in science in the following combinations only: Botany
	with zoology, zoology or botany with physiology, geology or physiology
	with physiography.
	Second method: Graduates of schools approved by the North Central Associa-
	tion or of other specially approved schools, if satisfactorily recommended.
	will be admitted on any 15 units that include 12 academic units tabulated
	as accepted.
81.	Albion College, Albion, Mich.
~	Requires 2 of one language: Latin, Greek German, or French
	Specifica nhyaica
	Economics Spanish or additional science mould probably he amount and
80	Alma College Alma Mich.
04.	Regular 9 of the large region of the large large large large region of the large l
	Requires 2 in one language: Latin, Greek, German, or French.
<u>ः</u>	roosoly will accept vocational subjects as indicated.
83.	Hillsdale College, Hillsdale, Mich.
+11	Requires 2 of one language: Latin, Greek, German, or French.
	Specifies physics.
	After 1912 any laboratory science will be accepted in place of physics, and 2 of
	any vocational subject will be accepted, provided the sum of vocational
	subjects does not exceed 3 ufits.
84.	Hope College, Holland, Mich.
4	Accepts from an approved school any 16 units tabulated as accepted
	The second



	COLLEGES OF LIBERAL ABTS. 61
35.	Kalamazoo College, Kalamazoo, Mich.
	Requires 2 of one language: Latin, Greek, German, or French.
	Accepts 1 unit of subjects not listed.
36.	Olivet College, Olivet, Mich.
	Requires 2 of one language: Latin, Greek, German, French, or Spanish.
	Specifies physics or chemistry
	Accents husiness for commercial course only
	Accords music for music course only
27	University of Minnesota, Minnesotalis, Minn
	No applicant admitted with loss than 15 units
•	Rocuires two condumic majors (of which English shall be one) of 3 units each
	and ano condemic majors of 2 suits
	and one academic minor of 2 times.
	English requirement reduced to 5 when 4 of one foreign language is presented.
	A major or minor may consist of work in any one of the following languages:
	Latin, Greek, German, French, Spanish, or Scandinavian.
	A major or minor in mathematics is required, but foreign language is not
	required.
	A major or minor in history and social science may include any of the following:
•	History 1 to 4, civics 1 or 1, elementary economics 1, commercial geography
•	1 or 1, history of commerce 1 or 1, economic history of England 1, and economic
	history of the United States 1.
	Vocational subjects may include not more than 4 units of the following: Busi-
	ness law $\frac{1}{2}$ , business arithmetic $\frac{1}{2}$ , elementary book keeping 1, advanced book-
	keeping 1, stenography and typewriting 2.
	In case the candidate did not have opportunity to take all the required sub-
	jects, a substitution may be authorized for one required unit.
88.	Carleton College, Northfield. Minn.
	A. B. Requires Latin 2.
	B. S. Requires 2 of one language: Latin, Greek, German, or French.
	B. S. Specifies 2 of the following: Chemistry 1, physics 1, and biology '.
89.	Gustavus Adolphus College, St. Peter, Minn.
	Foreign language not required.
	Accepts Swedish 3 and Christianity 1.
90.	Hamline University, St. Paul, Minn.
	Accepts any 15 units upon recommendation of an approved school.
91.	Macalester College, St. Paul, Minn.
	Accepts any 15 units upon recommendation of an approved school.
92.	St. Olaf College, Northfield, Minn.
	Requires 4 of Latin if applicant wishes to enter classical course.
93.	University of Missouri, Columbia, Mo.
	Requires 2 of one language: Latin, Greek, German, French, or Spanish.
<b>6</b> 4	Cantral College Favette, Mo
	A B Berguine Latin 4 and 1 of Greek German, French, or Spanish.
	B. S. Boquires Latin 2 and 2 of Greek, German, French, or Spanish.
05	Drum College Springfield Mo
10.	Draving 2 of foreign language including 2 of one language: Latin, Greek.
	Common of French
••	Vierman, or French.
96.	Missouri valley College, Marshall, Mo.
•	Requires Latin 3.
۰.	Specines physics of chemistry of Diology.
	Specifies ancient and modern history counting together as one unit.
	19







		COLLEGES OF LIBERAL ARTS. 63	₿.
10	08.	Alfred University, Alfred, N. Y.	
·		A. B. Requires Latin 4 and 3 of Greek, German, or French.	
		Ph. B. Requires 4 of one language or 2 of each of two: Latin, Greek, German	,
		French, or Spanish.	
		B. S. Requires 2 of one language: Latin, Greek, German, French, or Spanish	•
		B. S. Requires also drawing I.	
		B. S. Specifies algebra 1, plane and solid geometry 1, and plane trigo	-
10	na	Barnard College New York City, N. V.	
10	<b>.</b>	A B Requires Latin 4	• .
		B. S. Does not require foreign language.	
		B. S. Requires 2 elective units selected from intermediate or advanced sub-	
•		jects: English, foreign language, mathematics, and history.	
11	10.	Colgate University, Hamilton, N. Y.	
		A. B. Requires (a) Latin 4; or (b) Latin 3 and 2 of Greek, German, or	r
		French; or (c) Greek 3 and 2 of Latin, German, or French.	
		B, S. Requires 3 of one or 2 of each of two of the following languages: Latin	,
		German, or French.	
11	11.	Columbia College, New York City, N. Y.	
		A. B. Requires Latin 4.	
		B. S. Requires (a) Latin 4, or (b) physics 1 and chemistry 1 and 2 of inter	-
		mediate or advanced subjects.	
	12.	Cornell University, Itnaca, N. Y.	·
		A. B. Requires 3 in one and 2 in another of the following languages: Latin	•
•	•	B. Chom. Bequires 2 of Cormentor Franch	
11	13	Elmira College Elmira N Y	
••		A. B. Requires Latin 4 and Greek 3 or German 2 or French 2	
		B. S. Requires Latin 2 and modern language 3.	
		B. S. Science must include physics 1 or chemistry 1.	
		A. B., If Greek 3 is not offered, I elective unit must consist of history, science	
		or advanced modern language. The other elective unit is not restricted	•
	•	A four-year domestic science course and a secretarial course are also offered	,
•		for which substitutes may be accepted for admission.	•
11	14.	Fordham University, New York City, N.Y.	
		Requires three foreign languages: Latin 4, Greek 2, and 2 of German, French	, .
		or Spanish.	
		Specifies United States history and civics, English history, and ancient history	•
. 11	10.	Hamilton College, Clinton, N. Y.	-
•		A. B. Requires Latin 4 and Greek 3.	_
		rn. B. Nequires Laun 4 and German 3 or French 3, or German and French	1
·		A B Specifies United States Electory and civics and Greak and Roman	· ·
		history	1
		Ph. B. Specifies United States history and civics and Roman history	
11	16.	Hobart College. Geneva. N. Y.	
		A. B. Requires either Latin 4 or Greek 2, and 2 of a second language: Latin	•
		Greek, German, French, or Spanish.	•
		B. S. Requires 2 of each of two languages: Latin, Greek, German, French	,
		or Spanish,	· .
11	17.	Manhattan College, New York City, N. Y.	•
		Requires (a) Latin 4 and Greek 2, or (b) French 4 and German 2.	
		Specifies United States history and civics as part of the history requirement	•
÷			



	64	COLLEGE ENTHANCE REQUIREMENTS.
	118.	College of the City of New York, New York City, N. Y.
N Jil	•	Requires 3 of one and 2 of another of the following languages: Latin, Greek, German, and French.
		Requires two subjects selected from the following: Ancient history, medieval and modern history, English history, and United States history and civics.
		Allows 1 unit credit only for each of the above history subjects. B.S. Required mathematics consists of alcohold that and plane and solid enorm
		etry 13.
	.119.	Normal College of the City of New York, New York City, N. Y. Requires 3 of one and 2 of another of the following languages: Latin, Greek, German, French, or Spanish.
		Requires 1 of the third language or of science.
•		Requiree 1 elective unit to be selected from advanced mathematics or fourth year foreign language or second year of a science.
	120.	New York University, New York City, N. Y.
		Section B. Requires either Latin 4 or Greek 3, and 2 of German or French. Section C. Requires 2 of German and 2 of French.
÷.	101	Section C. Specifies physics or chemistry.
	121, 	A. B. Requires Latin 4 and Greek 3 or German 2 or French 2. Would also
11		accept Greek 3 and 2 of German or French.
		B. S. Requires Latin 4 or 2 of each of two of the following languages: Latin, Greek, German, French, or Spanish
	•	B. S. Specifies physics and chemistry.
	ą.	A. B. Specifies ancient history.
	122.	St. Lawrence University, Canton, N. Y.
		A. B. Specifies Latin 4 and Greek 3 or German 2 or French 2. B. S. Requires 2 of German, French, or Latin.
		Specifies ancient history.
•••	100	A. B. If Greek 3 is not offered, the elective unit must consist of the third year of modern language or physics or chemistry.
	160.	A. B. Requires Latin 4 and Greek 3 or German 2, French 2 or Spanish 2 or
	•	Italian 2.
-	• •	A. B. Spectree Roman Restry 1; and if Greek is offered, Greek history 1. B. S. Requires (a) 3 of one language: German, French, Spanish, or Italian, or (b) Latin 2 and 2 of German, French, Spanish, or Italian
		B. S. in Chem. Requires 3 of German or French and 2 of a second modern
	•	<ul> <li>language: German, French, Spanish, or Italian.</li> <li>B. S. in Chem. Requires physics or chemistry as part of the science required</li> </ul>
		B. S. and B. S. in Chem. Requires also drawing 1.
	•	B. S. in Chem. Required mathematics may include either plane trigonom- • etry or advanced algebra.
e i i	124.	Union College, Schenectady, N. Y.
		A. B. Requires Latin 4, and Greek 3, or German ² or French 2. If Greek is offered. 15 units instead of 14 are required
1	•	Ph. B. Requires Latin 4, and 2 of German or French.
	ά, .	A. B., Ph. B. Specifies physiology <b>j</b> and accepts no other science.
	1	Yand accepts no other history.
1. S. S.	1	B. S. Requires 2 of German or French.
	Y	



	COLLEGES OF LIBERAL ABTS. '68	;
	B.S. Specifies physics 1 and physiology 1.	e de la Co
•	B. S. Specifies United States history and civics 1.	•
	A six-year course conferring both Ph. B. and B. E. is offered, requiring 1	Ð
	units for admission.	
125.	Vassar College, Poughkeepsie, N. Y.	
	Requires Latin 4, and 3 of Greek, German, or French.	
	Specifies ancient history.	
	The elective unit must consist of a third foreign language or physics or chem	-
	istry or United States history and civics.	
126.	Wells College, Aurors, N. Y.	
	Requires (a) Latin 4, and 2 of each of two of the following: Greek, German	,
•	and French, oN(b) Latin 4, and 3 of Greek, German, or French, and 1 uni	t *
	of a third foreign language, or physics or chemistry or botany or zoology.	
127.	University of North Carolina, Chapel Hill, N. C.	
	Requires (a) Latin 310, and 2 of Greek, German, or French, or (b) 2 of each of	f
ì	two of the following: Greek, German, or French. If neither Latin no	r
	Greek is offered, 1 of science is required.	
	Specifies United States history Tand ancient or English history 1.	. •
128.	Trinity College, Durham, N. C.	
	Requires (a) Latin 4, and 2 of Greek, German, or French, or (b) German	2
•	and French 2	
129.	Wake Forest College, Wake Forest, No C.	
	Requires (a) Latin 4, or (b) Latin 2, German 1, and French 1.	
130.	University of North Dakota, Grand Forks, N. Dak.	• -
	Requires 2 of one language: Latin, Greek, German, French, Spanish, o	r
	Scandinavian.	
	Specifies physics or chemistry or biology.	
•	Specifies ancient or general history	•
	Limits sum of physiography and geology to 1.	
	Limits sum of botany, zoology, and biology to 2.	
	Limits vocational subjects, not including agriculture, to 5; including agricul	•
	ture, to b.	•
101	Forme Colline Forme M. Dele	
151.	Paguine 9 of ferring language	
. 199	Obio Stato University Columbus Obio	~. ·
132.	Bequires def one lenguese of R of each of the other of the fille in the state of the	•
	German French on Smalth	•
•	Specifica nhyrica or chemistry	
199	Buchtel College Akron Obio	
100.	A B Provises Letin A	
	Ph B B S Bequires 4 of foreign language including 8 of any home	
	Latin Streek German or French	•
:	A.B. Ph. B. Specifica general history	
	B.S. Specifics 2 of enterone its luding abusing the based on t	
	Vostional subjects treated on marite of man	• •
124	University of Cincinneti Cincinneti Ok	i
101.	Requires 8 of freeien language including that are to many that	•
	German French or Snapish	,
185	Denian University Granville Obio	
100.	A B Requires Latin 4 and Greak 9	
	Ph. B. B. S. Requires 4 of foreign langtage	1
	- a, Actunes a or toteller millingle	
1.80	ven units of science are accepted, but the excess over a receiver only half credit, consequently & a	
ţbe m	aximum credit obtainable,	
	64201° - 5	
your a	State and the second state of the	1.85



Nates-	66	COLLEGE ENTRANCE REQUIREMENTS.	AN
10	136.	Kenvon College, Gambier, Ohio,	
í.		A. B. Requires Latin 4, and 2 of Greek, German, French, or Spanish.	10
		B. L. Requires 4 of foreign language, including 2 of one language: Latin,	- 2
		Greek, German, French, or Spanish.	1.
		B. S. Requires 3 of foreign language, including 2 of one language: Latin,	1
		Greek, German, French, or Spanish.	- }
	137.	. Lake Erie College, Painesville, Ohio.	
		Requires 6 of foreign language, including Latin 3.	- {
		Accepts music upon examination only.	1
F	138.	Marietta College, Marietta, Ohio.	- í
	-	Requires 4 of foreign language, including jatin 2.	1
· 1	100	Limits sum of psychology, pedagogy, and economics to 1.	
and the	T98.	Bequires 4 of one or 2 of each of two of the following. Lettin, Creat, Common	1
		or French	· ·
·	đ	Specifies physics or chemistry	1
		The normal college will offer the new entrance film of the University of Chil	
5		cago as an alternative. September, 1913.	
	140.	Oberlin College, Oberlin, Ohio.	
		Requires 4 of foreign language, including 2 of Latin or Greek.	
1 es.	141.	Ohio University, Athens, Ohio.	1 -
		Recommends certain subjects for admission, but will accept any 15 units	
		recommended by a first-class accredited high school.	1
÷	142.	. Ohio Wesleyan University, Delaware, Ohio.	1
	114	Requires 6 of two languages combined, including Latin or Greek for the A. B.	
	140	and German or French for the B.S.	- T ⊂ I
	143.	Deterbein University, Westerville, Ohio.	- J = -
	144	Western College for Women Onland Obje	1
	1437	Bequires 4 of foreign language, including Latin 2	
	145	Western Reserve University Claveland Obio	1
	v.	(For men) Adelbert College.	
· •		Requires 4 of foreign language, including Latin 2.	
		After 1912 requires (a) 4 of one language: Latin, German, French, Spanish,	1.1
		or Italian, or (b) 2 of each of two of the following: Latin, Greek, German,	1 2
	•	French, Spanish, or Italian; and the 5 elective units may be selected from	
		the following: Foreign language, history, civics, physics (1), chemistry (1),	- Î
		and drawing (1).	1
	146.	. Western Reserve University, Cleveland, Ohio.	
1. A		(afor women) The College for Women.	
•		Requires 4 of one of 2 of each of two of the following: Latin, Greek, Ger-	
		A counte dra wing when gracially approved	
	147.	University of Wooster, Wooster, Ohio	- 2 -
	-	A. B. Requires Latin 4 and Greek 2.	- 8
		Ph. B. Requires Latin 4 and German 2.	
	-	B. S. Requires 4 of foreign language, including German 2.	
ar vi		B. S. Specifies chemistry 1 as part of the science requirement, in case 2 addi-	
		tional units of foreign language are not offered.	1 and
Sara -		Accepts nature study } and bird life }.	
	148.	University of Oklahoma, Norman, Okla.	
		Requires 2 of one language: Latin, Greek, German, French, or Spanish.	1
411 ····	5	Specifies physics, chemistry, botany, zoology 1, or botany 1 and zoology 1.	
Mar SA	Ser. J	Limits sum of physiography and geology to 1.	1
and are	Sait		
100		We have a set of the set	



## 1 COLLEGES OF LIBERAL ARTS.

149. University of Oregon, Eugene, Oreg. Requires 2 of one language: Latin, Greek, German, French, or Spahish. Specifies physics.

	, opec men privace.	
150.	Reed College, Portland, Oreg.	
	"No prescriptions whatever are made concerning the subjects to be offered	
	for admission. In any foreign language, however, two or four units should	
	be presented for entrance, in order to make the secondary school courses	
	connect with the college courses, since each year of the work of the college	
	in a foreign language covers the equivalent of two years of secondary school	
	work in that language. In the same way, students who desire to study	
	mathematics in college should arrange to satisfy the prerequisites of some	
	freshman course in that department. The same mathematical prerequi	
	sites are practically essential to much work in any of the physical sciences."	
151.	Willamette University, Salem, Oreg.	
	Requires 2 of one language: Latin, Greek, German, French, or Spanish.	
	Specifies a laboratory science.	
<b>1</b> 52.	Pennsylvania State College, State College, Pa.	
	Requires (a) Latin 4, and 3 of Greek, German, or French; or (b) Latin 4 and	
	science 1; or (c) science 2 and 2 of one language: Latin, Greek, German,	
	French, or Spanish.	
153.	Allegheny College, Meadville, Pa.	
	A. B. Requires 4 of foreign language, including Latin 2.	ť
	B. S. Requires 4 of foreign language.	
	Specifies biology 1 as part of science requirement.	
154.	Bryn Mawr, Bryn Mawr, Pa.	
•	Requires three foreign languages, Latin 4 and 3 of each of two of the following:	
•	Greek, German, and French.	
155.	Bucknell University, Lewisburg, Pa.	
	A. B. Requires Latin 44 and Greek 3.	
	Ph. B. Requires Latin 43, or Latin 2 and Greek 3.	
	B. S. Requires Latin 2, and 1 of German or French.	• •
	Ph. B. B. S. Requires solid geometry, counting it ], in addition to algebra 1	
	and geometry 1.	
•	Specifics physics or chemistry.	•
••	Specines United States history and civics and ancient history.	
150	Requires irce-hand drawing .	
100.	Dickinson College, Carline, Pa.	
•	A. B. Requires Latin 4 and Greek 3.	
·	Final B., D. S. (First method.) Requires (a) Latin 4 and 3 of German or	
•	Prench; or (0), Latin 4 and 2 of German or French, and science 1.	
	man or French and additional history 1 or advanced mathematical to	
	advanced foreign language 1	
•	Ph B B S (Third method) Requires Correct 2 and Devel A	
	vanced methamatics 11	
	Specifies ancient history 1 and United States history and civics 1	·
157.	Franklin and Masshall College, Langaster, Pa	
	Requires Latin 4, and 2 of Greek, German, or French.	
	Limits sum of geology and biology to 1	· .
158.	Grove City College, Grove City, Pa.	÷.
	Requires Latin 4, and 2 of Greek, German, or French.	*
·	Ph. B. Requires 2 of one language: Latin, Greek, German, Franch, or	
	Spanish.	
*	B. S. Require 2 of German or French.	•• .
	Vocational subjects considered on their merits.	
71 . ·		



67





	COLLEGES OF LIBERAL ARTS. 69	
167.	Swarthmore College, Swarthmore, Pa.	•
	Requires 4 of Latin, German, or French, or two selected from the following:	
	Latin 2, Greek 3, Germau 2, and French 2.	
	A graduate of an approved school may offer substitutes for some of the optional	1
•	subjects.	•'
168.	Temple University, Philadelphia, Pa.	
î:	A. B. Requires Latin 4, and Greek 3 or German 2 or French 2.	
	B. S. Requires two selected from the following: Latin 4, Greek 3, German 2,	
	and French 2, including either German or French.	
169.	Ursinus College, Collegeville, Pa.	
	A. B. Requires Latin 4, and 2 of Greek, German, or French.	
	B. S. Requires German 2, and 2 of Latin or French.	
	A. B. Specifies physics or chemistry.	•
•	B. S. Specifies physics 1 as part of the science requirement.	
	A. B., B. S. Specifies ancient history 1 as part of the history requirement.	
170.	Washington and Jefferson Collége, Washington, Pa.	
	A. B. Requires Latin 4, and 2 of Greek, German, or French.	
	B. S. Requires two selected from the following: Latin 2, German 2, and	. •
	Brench 2.	•
171.	Wilson College, Chambershurg, Pa	
	Requires Latin 4, and 2 of Greek. German, or French	
179	Brown University Providence R I	
	Hue a concrete (longertment for women	
	A B Requires 7 of foreign language including Latin 4 or Greek 3	
	Ph. D. Requires 5 of foreign language, including 2 of German or French	`
	A B Specific ancient history	
172	Converse College Sportanburg S. C.	
/ 113.	Requires Letter 3 and 1 of German of French	
/ 174	Wefford College Spectra burg S C	
1/4.	Required of furging language Latin 1 will not be accorted	
•	Requires 4 of foreign language. Takin 1 will not be accepted.	
• 175	Specifies Cliffed States Indory and Civics.	
175.	Dinversity of solution backata, verification, S. Dak.	
	Does not require foreign language.	
170	Unional Subjects considered on their merits.	
, 1/0.	Buron Conege, Eluron, S. Dak.	
1.00	Medures 2 of one language: Latin, Greek, or German.	
177.	Rankton Couege, Tankton, S. Dak.	
	Requires Latin 2 or German 2.	
178.	University of Tennessee, Knoxville, Tenn.	
	A. B. Requires Latin 4.	
	B. S. Requires 4 of foreign language.	
179.	Fisk University (colored), Nashville, Tenn.	
	A. B. Requires Latin 3].	•
~	B. S. Requires 34 of foreign language.	
180.	University of the South, Sewanee, Tenn.	
	Requires Latin 4.	•
181.	Vanderbilt University, Nashville, Tenn.	
•	A. B. Requires Latin 4 and Greek 3.	•
	B. S. Requires 4 of one foreign language, or 2 of each of two of the following	:
	Latin, Greek, German, French, and Spanish.	
182.	University of Texas, Austin, Tex.	
	Requires 3 of one language, or 2 of each of two of the following: Latin. Greek	1
•, •	German, French, or Spanish.	
	• • •	**
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50m.	70	COLLEGE ENTRANCE BEQUIREMENTS.	19. C
	183.	Baylor University, Waco, Tex.	
	•	Requires 3 of foreign language.	
		Specifies English history 1 as part of history requirement.	1
		Accepts pedagogy 1, psychology 1, and Bible 1.	1
1	184.	Southwestern University, Georgetown, Tex.	10
		Requires Latin 3 or Greek 2 or German 2 or French 2 or Spanish 2.	
	185.	Trinity University, Waxahachie, Tex.	
1.		A. B. Requires 3 of one language, or 2 of each of two of the following: Latin,	1
		Greek, German, French, or Spanish.	
		B. S., B. L. Requires 3 of foreign language, including 2 of one language:	
		Latin, Greek, German, French, or Spanish.	10
		Specifies physics or chemistry 1, physiography $\frac{1}{2}$ , and physiology $\frac{1}{2}$ .	t t
2		Specifies ancient and medieval and modern history.	
	300	B. S. Will be discontinued after 1913.	P
	190.	Deer not require foreign large City, Utan.	- 1
		Boowings 1 of spin so for School of Education solu	- 1 × 1
P		Accepte precision of School of Education only.	- 1
		Not more than 2 of agriculture art accorted unloss accompanied by at least 1	
		of allied solance. Not more than 1 of domestic solance are accompanied by at reast 1	
		accompanied by 1 of chemistry Domestic science demostic art and	
		freehand drawing combined may equal 5	
	187.	University of Vermont, Burlington, Vt.	
	10	Requires Latin 4. and Greek 3 or German 2 or French 2 or Spanish 2	
		Specifies ancient history.	
		Accepts agriculture from agricultural high schools only.	
	188.	Middlebury College, Middlebury, Vt.	
		A. B. Requires Latin 4, and Greek 3 or German 2 or French 2.	1
	а. С	B. S. Requires 2 of Latin, German, or French.	
	189.	University of Virginia, Charlottesville, Va.	
		A. B. Requires Latin 4.	
		B.S. Requires 2 of each of two modern languages: German, French, and	
		Spanish.	-
		Limits sum of botany and zoology to 1.	
	190,	Randolph-Macon College, Ashland, Va.	
		A. B. Requires Latin 4, and Greek 3 or German 2 or French 2.	14
	101	B. S. Requires 2 of German or French.	
	191.	Rannolph-Macon woman's College, Lynchburg, Va.	
	100	Pickmand College Diskmand No.	- 1.
	182.	Does not require foreign language	1
	109	Boenske Sellore Selom Ve	- 4-
	100.	Requires 5 of foreign language including Latin 3	1
		Will require 15 units in 1913	3
	194.	Washington and Lee University Lexington Va	- 16 -
°.	-	Does not require foreign language.	
		Access 34 of mathematics, but the presentation of frigonometry involves extra	- 1 - I
	5	work in college.	
	195.	University of Washington, Seattle, Wash.	
		* Classical, modern language, and philosophical courses. Requires 4 of foreign	
		language and specifies physics.	
		Mathematical and science courses. Requires 2 of one language: Latin, Greek,	
161		German, French, or Spanish, and specifies physics 1 and either chemistry or	•
and m.	1.	biology 1, and requires 4 of English, unless 3 of one language is presented,	
5 S.1.3	Set.	in which case the English requirement is reduced to S.	200
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	COLLEGES OF LIBERAL ARTS. 71	1
196.	State College of Washington. Pullman, Wash.	
	Requires Latin 2.	
	Specifies physics.	
	Specifies United States history and civics.	
	Limits sum of English, history, and other social sciences to 8.	
	Limits sum of mathematics and natural science to 8	
107	Whitman College Walls Walls Wash	
191.	Will accept from an approved school any 16 units selected from the subjects	
	tabulated as accepted, but limits sum of English history, civics, and	
	economics to 6, and limits sum of mathematics and drawing to 4.	
198.	West Virginia University, Morgantown, W. Va.	
	A. B. Requires Latin 2.	
	B. S. Requires 2 of one language: Latin, German, French, or Spanish.	
	Specifies physics, chemistry, botany, or zoology.	
•	B. S. Will accept trigonometry in place of solid geometry as part of required	
100	mathematics.	•
188.	University of Wisconsin, Misclison, Wis.	
	Requires 2 of Laun, German, or French.	
	If d units of vocational subjects are not offered. I optional unit may be offered	
	from subjects not listed	
200	Beloit College Beloit Wis	
2000.	Requires 2 of one language: Latin, Greek, German, or French.	
	Plane and solid geometry combined valued as 1.	
201	Carroll College, Waukesha, Wis.	/
	Requires 2 of one language: Latin, Greek, German, or French.	
	B. S. Specifies physics.	
	Occasionally accepts 2 of vocational subjects.	
202.	Lawrence College, Appleton, Wis.	
909	Requires 2 of one language: Latin, oreek, derman, riench, or spanish.	
203	Requires 2 of one language: Latin Greek German or French.	
	Requires 2 of English, but prefers 3.	
	Requires plane and solid geometry, counted together as 1 unit.	
90.4	University of Wyoming, Laramie, Wyo.	
207	Requires 2 of one language: Latin, Greek, German, French, or Spanish.	
201		•
201	Accepts pedagogy 1, psychology 2.	·
204	Accepts pedagogy 1, psychology 2.	•
204	Accepts pedagogy 1, psychology 1.	•
204	Accepts pedagogy 1, psychology 3.	•
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## Chapter III.

## COLLEGES OF ENGINEERING.

Of the 85 colleges of engineering in this chapter, 46 are under State control.

Table 3 is a summary showing the distribution of these colleges according to the number of units that they prescribe in each subject, and also according to the number that they accept in each subject.

Table 4, and the supplementary notes following it, give the entrance requirements of each college.

TABLE 3 Distrib	ution of E	35 colleges	of eng	ineering	, PAI	ат I.—	Accordin	g to the r	umber
0	f units p	rescribed fo	or adm	ission fo	or Sej	otember	•. 1912. · `		












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5 1 6 0 7 0 8 0	sity. University of Southern California Solorado, University of Colorado Agricultural College Colorado School of Mines.	15 15 15 15 15	1) 2 3 3 3	0 31 3 3 3	0 2 0 2 0	() 2* 1* 2 2*	0 1* 2 2 2	2	14 125 11 10 12	13 <u>1</u> 2 <u>1</u> 4 5 3
	Coorado College. Conn Scheffeld School. D. C George Washington Uni- yerally. Georgia, University of	15 15 15 14 15	333333	3 4 3 2 3	2 4 2 2	3# _1 2# 0 1#	24 • 1 • 0 2 1		13 13 124 94 10	2 2 4 5
5 J	Armout Institute of Technology Iames Millikin University Northwestern University Ind. — Purdue University University of Notre Dame	15 15 15 15 15	3 3 3 4	3 3 2 3 3 3	0 2 0 4 2 3*	2* 0 0 1 2*	0 0 0 1 2*	-1 	121 6 92 10	8 21 9 51 5 1
	Rose Polytechnic Institute lowa, State University of Journell College	15 15 15 15 15	8 3 3 3 3	3	2 2 2 3 2	0 0 14 14	1 1 21 0 1	1	9 114 11 10	6 6 31 4 5
	Louisiana State University Louisiana, Tulane University of Maine, University of Massachusetta Institute of Tech- nology	14 144 14- 14	3333	3 (or 4) ⁴ 3	1 2 (or 3)* 2 (or 4) 4	0 2 1	0 (or 2)* 1		74 12 10 12	64 25 4 2
	rurs College Worcester Polytechnic Institute Michigan, University of Michigan Agricultural College Minnesota, University of	14 14 15 15	3333	d	2 4 2 0	0 1= 1= 1=	1 1 0		9 12 10 7 7	5 2 5** 8*
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institutions.	Total units quired.	English.	Mathematics.	Foreign lan- guage (De- tails in sup- plementar y notes ]	Natural sci-	History and civics.	Drawing.	Total units prescribed.	Elective units.	
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New Jersey — Princoton University New Maxio College of Apriculture. New Maxio College of Apriculture N. J. — Polyteennie Institute of Brooklyn. New York. Columbia University. Fordiam University. Manhatian College. New York University. Manhatian College. New York University. Manhatian College. New York University. University of Rochester. Syracus University. University of Rochester. Syracus University. North Carolina, University of. North Dakota, University of. North Dakota, University of. North Dakota Agricultural College. Ohio State University. Caso School of Applied Science. University of Cincinnatl. Oklahoma, University of. Pernsylvania State College. Lafayette College. Lafayette College. Temple University. Rhodo Island State College. Bouth Dakota, University of. Tennesse, University of. Tennesse, University of. University of Pensylvania. University of Pensylvania. University of Pensylvania. University of Newsylvania. University of Newsylvania. University of Newsylvania. University of Densylvania. University of Newsylvania. University of Newsylvania. University of Newsylvania. University of Densylvania. University of Newsylvania. University of Newsylvania. University of. Vermont, University of. Vermont, University of. Washington, State College of. West Virginia University of. Weshington, University of. Weshington, University of. Weshington, University of. Weshington, University of. Weshington, University of.	$\begin{array}{c} 14 \\ 14 \\ 15 \\ 15 \\ 14 \\ 15 \\ 14 \\ 15 \\ 14 \\ 15 \\ 15$		34 4 3 34 34 34 34 34 33 34 33 34 33 34 34	4 2 0 3 3 6 6 5 -2 -2 2 2 2 2 2 2 4 (or 5) - 2 2 2 2 2 2 2 4 (or 5) - 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	14 20 29 10 29 10 29 10 20 10 10 10 10 10 10 10 10 10 1	0 1 0 1 2 1 2 1 2 1 2 1 2 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 2 1 9 7 1 9 7 1 9 7 1 9 7 1 9 7 1 9 7 1 1 1 1 1 1 1 1 1 1 1 1 1		$\begin{array}{c} 114\\ 12\\ 3\\ 13\\ 114\\ 11\\ 14\\ 16\\ 10\\ 14\\ 10\\ 11\\ 11\\ 10\\ 3\\ 12\\ 10\\ 10\\ 11\\ 12\\ 10\\ 11\\ 12\\ 10\\ 11\\ 12\\ 10\\ 11\\ 12\\ 10\\ 11\\ 12\\ 10\\ 11\\ 12\\ 10\\ 11\\ 12\\ 10\\ 11\\ 12\\ 10\\ 12\\ 12\\ 10\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12$	2221 23400 44043 351234 0445314 435155 506222 364467 87266	· •
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		SUPPLEMENTARY NOTES	
22	,		
	1,	University of Alabama, University, Ala	
_	0	Requires 2 of German or French, or Latin 4	
	2.	University of Arizona, Tucson, Ariz.	•
	•	Requires 2 of one language: Latin, Greek, German, French, or Spanish	
	•	Specifies physics for civil, mechanical, and electrical engineering, and for	· ~
		course in metallurgy.	· •
	2	Specines physics and chemistry for mining engineering.	
	э.	Decume 6 of Faction all for the second secon	· ·
		Succifies a busic and the static	
		Specifies United States historic and vision	
		Specifies fine hand draman hand civics.	
	4	Lond Stanford ⁴ Junion Liniumitae Stanford Liniumitae (1)	
	4.	Second method: "Undermeducte standing with the	
		to graduates of approved schools the have second to interfer tests, is granted	
		course amounting to not loss than 15 antenna units and and	
		recommended to the University "	
	5.	Liniversity of Southern California, Los Angeles, Cal	•
	•	Bequires 2 of German French or Spanish	
		Specifies nhysics and chemistry	
		Specifies United States history and civics	
		Specifies free-hand drawing 1 and mechanical drawing 1	
		Consideration given to subjects not mentioned	
	6.	University of Colorado, Boulder, Colo.	
	•	Requires 2 of foreign language.	
i		Specifies physics.	
		Limits sum of economics and vocational subjects to 3.	
		Substitutes may be allowed for some of the prescribed work in case 15 units	
		accepted work is offered.	
	7. (Colorido Agricultural College, Fort Collins, Colo.	1
		Specifies physics and chemistry.	\
		Additional credit and additional subjects will be considered.	H
	8. 1	School of Mines, Golden, Colo.	· · · ·
	•	Requires 2 of foreign language.	
	_	Specifies physics and chemistry	
	9. (Colorado College, Colorado Springs, Colo.	
		Requires 2 of one language: Latin, Greek, German, French, or Spanish.	•
•		Specines chemistry and physics as part of science requirement.	· ·
,	10	Specines United States history and civios and either English or aricient history.	~
	10, 1	Snemela Scienting School, Yale University, New Haven, Conn.	
,		Requires 2 of each of two of the following: Latin, German, or French.	· ·
	11. 1	Bequires 4 of Garman on Finnah, on Garman San I Bar I Day	
,		Specifies physics and allowing.	· •• ·
. 1	12	Lipiversity of Georgie Athene Go	· · · · .
•		Requires 2 of German or Franch	·
• 1	13.11	University of Idaho, Moscow, Idaho	
	•	Requires 2 of one language: Latin German French or Smanish	
. •		Specifies physics.	
•	-	Requires 1 additional unit from English mathe nation traine the	
	Ċ,	science, and history.	
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	82	COLLEGE ENTRANCE REQUIREMENTS.
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	12.	Ontrophicy of Inniole, Orbana, In.
		Specifies physics.
		Limits sum of shop work, nousenoid economics, spriculture, bookkeeping 1, and
		business law 1 to 3. Drawing I and commercial geography 1 may be pre-
· · · · ·		sented in addition.
	15.	Armour Institute of Technology, Chicago, III.
		Requires 2 of German, French, or Spanish.
Č.		Specifies physics and chemistry.
	4	Specifies mechanical drawing 1.
		Accepts mechanical drawing 1 and free-hand drawing 24.
2	16.	James Millikin University, Decatur, Ill.
		Does not require foreign language.
	17.	Northwestern University, Evanston, Ill.
		Requires Latin 4
		Accepts 2 of vocational subjects and other work not specified, but commercial
÷ .		recogning the and commercial law + may be presented in addition.
	19	Purdue University Lafavette Ind
F .	10.	Requires 2 of Latin German or French
	10	Note Doma University Notre Dame Ind
ľ	19.	Beruites 2 of Common on Emplo
		Requires 5 of German of Preach.
		Specifies physics and chemistry.
		Specifies drawing 2.
		Substitutes for some of the prescribed work will be accepted from the subjects
		which are given as receiving credit, and the elective unit may be chosen
	4	from any work that an approved sensol counts for its own graduation.
	2 0.	Rose Polytechnic Institute, Terre Haute, Ind.
		Requires 2 of German or French.
		Accepts economics 2 and social science 2, and recommends these subjects as
ŀ		electives.
		Subjects not tabulated as accepted will be considered.
	21.	State University of Iowa, Iowa City, Iowa.
ŀ		Requires 2 of one language: Latin, Greek, German, French, or Spanish.
		Limits sum of natural science and agriculture to 41.
-		Limits sum of advanced arithmetic }, double-entry bookkeeping 1, commercial
		geography 1, commercial law 1, and industrial history 1 to 2.
		Limits sum of drawing 1, shopwork 1, household economics 1, and stenography
· .		1 to 2.
	22	Town State College of Agriculture and Mechanic Arts, Ames, Iowa
		Same requirements as the State University of Iows.
.	23	Cornell College, Mount Vernon, Iowa.
:		Requires 2 of one language: Latin, Greek, German, or French.
. ·		Requires 2 of history and other social science, including civics 4 and economics 4.
	. 04	University of Kansas Lawrence Kans.
	22.	Decuires 9 of freeing language including 2 of Latin German or French
<u>к</u> а –		Requires 5 of foreign high age, metading 2 of Data, German, or French.
	1	specines physics.
μ.		Requires MR) Grawing 1.
	25.	State University OI ACDUICEY, Lexington, My.
3		Kequires 2 of foreign language.
	· 26.	Moussana State University, Baton Rouge, La.
SHE	- 20	Requires I of German, French, or Spanish.
A. S. W.		Tulane University of Louisiana, New Orleans, La.
and the second	125	Requises 2 of one language: Latin, German, French, or Spanish.
n	THE	Requires 2 of Matory, of a third unit in the freign language presented with a
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	COLLEGES OF ENGINEERING. 88	
2	8. University of Maine, Orono, Me.	
	Requires 2 of German or French, or Latin 4.	
	Well-prepared students may receive credit for any 4 elective units well done.	*
21	9. Massachusetts Institute of Technology, Boston, Mass.	·
	Requires German 2 and French 2.	
	Specifies physics.	
	Specifies United States history and civies 1 or ancient history 1.	
30). Tufts College, Tufts College, Mass.	
	Requires 2 of one language: Latin, Greek, German, or French.	
- 31	1. Worcester Polytechnic Institute, Worcester, Mass.	
	Requires 2 of each of two languages: Latin, German, French, or Spanish. Either	
	German or French must be included.	•
20	Specifies physics or chemistry.	
34	2. University of Michigan, Ann Arbor, Mich.	
•	Requires 2 of one language: Latin, German, French, or Spanish.	
	Specifies physics.	
	Of the 5 elective units, $1\frac{1}{2}$ or 2 must be selected from chemistry 1, trigonometry $\frac{1}{2}$,	
	1 or 2 of Germany French, or Latin, manual training 1, and not more than 2	
33	Liay De onered of any vocational subject.	
-	Sharifae hhveine	
	Accents freshind drawing 1 and mechanical drawing and sharmore a	
34	Investity of Minnoesta Minnoendie Minn	
	Does not require foreign language.	
	Specifies chemistry.	
•	The 8 elective units must include a minor of 2 units in foreign language or in	
	history and social science. or in natural science.	•
	To form a language minor the 2 units must be in one language.	
	To form a minor in history and social science 2 units may be chosen from the	
	subjects given under the University of Minnesots in the chapter on colleges of	
	liberal arts.	
	The required chemistry may be counted as a part of a minor in natural science.	•
l I	Freehand and mechanical drawing are sach limited to 1, and not less than 2 of	•
0.5	"stenography and typewriting" will be accepted if that subject is offered.	
35	. Missouri School of Mines, University of Missouri, Columbia, Mo.	
	Does not require foreign language.	
20	Accepts 1 of trigonometry.	•
30	. Wäshington University, St. Louis, Mo.	
	Requires 2 of one language: Latin, Greek, German, French, or Spanish.	
	Specifies physics or chemistry.	
37	Limits sum of Civics and economics to 1.	
	Requires 2 of one language. Latin Greak Common Banah On with	
38	Montana State College of Agriculture and Machania Arte Deigman Mant	
•	Same entrance requirements as the University of Montane	
39	Montana State School of Mines Butte Mont	• •
	* Same entrance requirements as the University of Montana	
40	. University of Nebraska, Lincoln, Nebr.	• •
	Requires 2 of foreign language.	· · ·
	Specifies European history.	
·	Additional credit may be given to vocational subjects if a high school shows	
2.1	itself capable of offering more.	in state
ં 41	State University of Nevada, Reno, Nev.	
Sec.a.	opecifier an all vanged wience as part of science requiring at	in the
1000	Specifies United States history and civics.	7
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-OOLLEGES OF ENGINEERING.	85
56. University of North Carolina, Chapol Hill N. C.	
Requires 2 of German or French	•
Specifies United States history and civics and other an size to p	1
57. University of North Dakota, Grand Forka N. Dak	ighten history.
Requires 2 of one language: Latin Greek German Empoh	Specific
Scandinavian.	, opanish, or
Specifies physics.	
Specifies ancient or general history.	
Limits sum of drawing, shopwork, household economics, and busi	ness to 4
58. North Dakota Agricultural College, Agricultural College, N. Dak.	
Does not require foreign language.	. .
The elective units must include one academic major of 3 units and	one académic
minor of 2 units.	• • •
Boguines that for low the	· · · · ·
Grimon kinned on Spurith	Latin, Greek,
Specifier physics	•
60. Case School of Applied Science: Cleveland, Obia	•
Requires 2 of German French or Spenish: or German 1 and 1	
Specifies physics and chemistry	n 1 .
61. University of Cincinnati, Cincinnati, Ohio,	
Does not require foreign language.	
62. University of Oklahoma, Norman, Okla.	
Requires 2 of one language: Latin, Greek, German, French, or	Spanish but
specifies German for chemical engineering.	1
 Specifies physics. 	
Requires also free-hand drawing 1	
0.3. University of Oregon, Eugene, Oreg.	
Specifier physics	anish
64. Pennsylvania State College State College De	•
Requires 2 of one language: Latin Greek German Franch on S-	
65. Lafayette College, Easton, Pa.	anish.
Requires 2 of German or French.	
Specifies physics or chemistry 1, and physiography 1. If physiography	thy is taken
in the elementary school, another science must be taken in high	achool
Specifies United States history and civics and ancient, medieval,	and modern
history. If United States history is taken in the elementary e	chool, other
history must be taken in its place in the high school,	
Requires also a réview of algebra.	
Bequires 2 of Cormon on Franch	
67. Swarthmora College Swarthmora Do	e e e e e e e e e e e e e e e e e e e
Requires 4 of Latin German or French or two longers and the	
lowing: Latin 2. Greek 3. German 2 and French 2	from the fol-
A graduate of an approved school may offer substitutes for some of	the entional of
subjects, '	the optional
The college confers only the A. B. degree.	
68. Temple University, Philadelphia, Pa.	1001
Hequires 2 of German, French, or Spanish,	
Required mathematics consists of algebra 1 and plane and solid g	eometry 11.
specifies physics.	
Requires 9 of German as Function	
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	-86	COLLEGE ENTRANCE REQUIREMENTS.
Ŧ	70.	University of Pittsburgh, Pittsburgh, Pa
		Requires 2 of German or French, or German 1 and French 1
		Specifies physics.
	71.	Rhode Island College, Kingston, R. I.
		Requires 1 of German, or French.
		Specifies physics.
	72.	University of South Dakota, Vermilion, S. Dak.
		Does not require foreign language.
1.1		vocational subjects given credit on their merits.
	13.	Door not not in family language for the second seco
	74	University of the South Southe Souther There
	•••	Requires 2 of each of two of the following languages. Latin Grant G
		French, and Spanish.
<u>, </u>	75.	Vanderbilt University, Nashville, Tenn
ો મ		Requires 4 of one loreign language or 2 of each of two of the fullowing: Letin
		Greek, German, French, and Spanish.
	76.	University of Texas, Austin, Tex.
•		Requires 3 of one language, or 2 of each of two of the following: Latin, Greek,
		German, French, and Spanish.
	77.	University of Utah, Salt Lake City, Utah.
		Does not require foreign language, except for chemical engineering, for which
		Specifies physics or charminter
		Accente payebologie la podocorre 1 and Dible 1
		Not more than 2 of activiture are accontrol unlaw of activity the
		of allied science.
1.	• 78.	University of Vermont, Burlington, Vt.
•		Requires 2 of one language: Latin, Greek, German, or French.
		Specifies physics or chemistry.
•		Accepts agriculture from agricultural high schools only,
	79.	University of Virginia, Charlottesville, Va.
810- 1	PA	Does not require foreign language.
1	0 0.	Deep not neuring forming forming to have a second s
		Accepte 21 of mathematica but the second of
		extra work in college
	· 81.	University of Washington, Seattle, Wash
	."	Requires 2 of one language: Latin, Greek, German, French, or Spanish
		Specifies physics 1 and chemistry 1.
5		If 3 units of foreign language are presented, the English requirement is reduced
		to 3 units.
	82.	State College of Washington, Pullman, Wash.
÷		Does not require foreign language.
. ·		Specifies Drystes.
÷	1. T	Limits show of English history and civics.
9		Limits sum of mathematics and natural solar to 8
	83.	West Wirginia University, Morgantown, W Va
Sec.		Bequires 2 of one modern language; Germon, French, at Snanish
	ju tig	Specifice physics and chemistry,
	4. İ.İ.	Requires also freehand drawing 1.
a nut	Sales .	Will accept trigonometry in place of solid geometry as part of required mathe-
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. ar en T.	 *=subject is accepted and credit not in the column headed "Sum n c=acceptance will be considered. i=the sum of subjects thus designal mentary notes. *=particular subject or subjects spectimes. The supplementary notes are arrange e arranged by States and numbered the college is also given. ABLE 6.—Colleges of agriculture—Ent 	ot lin ot to ied n <i>ificd</i> ed un as in rance	nited, exceen nust n as sta ader t the t	exceed." ot ex ted in ho re able.	ceed t ceed t n supp specti The	it is he <i>l</i> bleme ve ce full <i>Sept</i>	limit imit entar ollege namp ember	ed by stated y note s. T c and	the in au he col locati	figure opple- lleges ion of.	
_	Prescribed	l and	election	ve un	its.		inite			'.	
	Institutions.	Total units required.	English.	Mathematics.	Foreign language (details in supple- mentary notes).	Natural science.	History and civics.	Drawing.	Total units pre- scribed.	Elective units.	.
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	94	COLLEGE ENTRANCE REQUIREMENTS.
		SUPPLEMENTARY NOTES.
	1.	University of Arizona, Tucson, Ariz.
		Does not require foreign language.
		Specifies physics, chemistry, or biology.
	2.	University of California, Berkeley, Cal.
		Requires 4 of foreign language.
		Specifies an advanced science with laboratory work.
	•	Specifies United States history and civics.
		Limits sum of economics, shopwork, household economics, agriculture, business,
		and music to 3.
	3.	Colorado Agricultural College, Fort Collins, Colo.
		Does not require foreign language.
		Specifies physics and chemistry.
		Additional credit and additional subjects will be considered.
	4.	University of Georgia, Athens, Ga.
		Requires 2 of one language: Latin, Greek, German, French, Spanish, or Italian,
	5.	University of Idaho, Moscow, Idaho.
		Requires 2 of one language: Latin, German, French, or Spanish.
		Requires 2 additional units from the following: English, mathematics, foreign
		language, science, and history.
	6.	University of Illinois, Urbana, Ill.
		Does not require foreign language.
•		Limits num of shopwork, household economics, agriculture, bookkeeping 1 and
		business law 1 to 3. Drawing 1 and commercial geography 1 may be pre-
		sented in addition.
	7.	Purdue University, Lafayette, Ind.
5		Requires 2 of Latin, German, or French.
	8.	Iowa State College of Agriculture and Mechanic Arts. Ames, Iowa.
		Requires 2 of Latin, German, French, or Spanish; or 1 of each of two of the
		following: Latin, German, and French.
		Limits sum of natural science and agriculture to 41.
`		Limits sum of advanced arithmetic 1, double-entry bookkeeping 1, commercial
		geography 1, commercial law 1, and industrial history 1 to 2.
		Limits sum of drawing 1, shopwork 1, household economics 1, and stenography
		1 to 2.
	9.	State University of Kentucky, Lexington, Ky.
		Requires 2 of foreign language.
		Accepts surveying i and six months' experience from holder of first-class cer-
	10	tincate I.
	10.	Louisiana State University and Agricultural and Mechanical College, Batou
		Rouge, La.
	.	Does not require foreign language.
	- 11 -	University of Maine, Urono, Me.
		Requires 2 of German or French or 4 of Latin.
	10	Weil-prepared students may receive credit for any 4g elective units well done.
•	12.	Danime 2 of Common on Double
		Requires 2 of German of Frence.
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2		United States history and childen thereby in manning the statistic matter
	•	5 to 51 and normitting 81 of fornign language
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	COLLEGES OF AGRICULTURE. 95
13.	Michigan Agricultural College, East Lansing, Mich.
	Does not require foreign language.
	Specifics physics.
	Accepts freehand drawing 1 and mechanical drawing and shopwork 2.
14.	University of Minnesota, Minneapolis, Minn
	Does not require foreign language
	English requirement reduced to 3 when 4 of one foreign language is offered
	Specifies physics
6	The 2 elective units must include a minus of 2 units in far in the
	in listom and social solution and an intervent anise of a solution of a units in foreign language, or
	The form of longuage minor the Queits such that is a long
	To form a language minor, the 2 units must be in one language.
	10 form a minor in history and social science, 2 units may be chosen from the
•	subjects given under the University of Minnesota, in the chapter on colleges
	of liberal arts.
	The required physics may be counted as a part of a minor in natural science.
	The course in home economics requires only 2 of mathematics in case a major
	of 3 units is presented in foreign language, or in history and social science,
	or in natural science.
15.	University of Missouri, Columbia, Mo.
	Does not require foreign language
16.	Montana College of Agriculture and Mechanic Arts, Bozeman, Mont.
	Requires 2 of Latin, German, or French.
17.	University of Nebraska, Lincoln, Nebr.
	Requires 3 of foreign language, unless 3 of mathematics is offered, in which
•	case only 2 of foreign language is required.
	Specifics European history.
	Additional credit may be given to vocational subjects if a high school shows
	itself carshle of offering more
18	Linivoraity of Neveda Reno Nev
.0.	Homoign language not required until 1014
	Specifice United States history and civice
10	New Humpshire College of Agriculture and Mochanic Arte Durbon N. H
13.	Requires 2 of German or French *
ີ	New Maxing Colloge of Agriculture and Machania Asta State (1 Mar. N. M.
ω.	A sound on the units manufacture and mechanic Arts, State College, N. Mex.
	Accepts any 15 units recommended by an approved high school, including
	not more than 6 units of vocational work.
21.	Cornell University, Ithaca, N. Y.
	Requires 3 of German or French.
22.	Syracuse University, Syracuse, N. Y.
	Does not require foreign language.
	Requires drawing.
23.	North Dakota Agricultural College, Agricultural College, N. Dak.
	Does not require foreign language.
	The elective units must include one academic major of 3 units and one academic
	minor of 2 units.
24.	Pennsylvania State College, State College, Pa
	Requires 2 of one language: Latin, Greek, German, French or Spanish
25	Rhode Island State College Kingston B I
	Requires 1 of German or Franch
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28	University of Tanagenee Knoweille Terr
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APPENDIX.

3. It is coming to be recognized that in a democratic society the high school has a distinct function. The high-school period is the testing time, the time for trying out different powers, the time for forming life purposes. Consequently, the epportunity should be provided for the student to test his capacity in a fairly large number of relatively diverse kinds of work.

In the high school the boy or girl may very properly make a start along the line of his chosen vocation, but a final choice should not be forced upon him at the beginning of that career. If he makes a provisional choice early in the course, there should be ample opportunity for readjustment later in the high school. For this reason the requirement of four years of work in any particular subject as a condition of admission to a higher institution, unless that subject be one that may properly be required of all high-school students, is illogical and should, in the judgment of this committee, be immediately discontinued.

4. Not only js it the duty of the high school to lay the foundations of good vitizenship and to help in the wise choice of a vocation, but it is equally important that the high school should make specific contribution to the efficiency of the individual along various broad lines. In our industrial democracy the development of individual aptitudes and unique gifts is quite as important as the development of the common elements of culture. Moreover, hard work is to be secured not by insistence upon uniformity of tastes and interests but by the encouragement of special effort along lines that appeal to the individual. Our education would gain in power and in virility if we made more of the dominant interest that each boy and girl has at the time. It would seem that some have come to believe the oft-repeated statement that the liberal should precede the vocational, but an organic conception of education demands the early introduction of training for individual usefulness, thereby blending the liberal and the vocational, for only then does the liberal receive its social significance and importance. In other words, the boy who pursues both the liberal and the vocational sees the relation of his own work to the work of others and to the welfare of society, whereas the liberal without the vocational leaves him a mere spectator in the theater of life, and the boxes in this theater are already overcrowled

5. Mechanic arts, agriculture, or household science should be recognized as rational elements in the education of all boys and girls, and especially of those who have not as yet chosen their vocation. Under the authority of the traditional conception of the best preparation for a higher institution, many of our public high schools are to-day responsible for leading tens of thousands of boys and girls away from the pursuits for which they are schapted and in which they are needed to other pursuits for which they are not adapted and in which they are not needed. By means of exclusively bookish curricula false ideals of culture are developed. A chasm is created between the producers of material wealth and the distributers and consumers thereof.

The high school should in a real sense reflect the major industries of the community which supports it. The high school, as the local educational institution, should reveal to boys and girls the higher possibilities for more efficient service along the lines in which their own community is industrially organized.

Our traditional ideals of preparation for higher institutions are particularly incongruous with the actual needs and future responsibilities of girls. It would seem that such high-school work as is carefully designed to develop capacity for and interest in the proper management and conduct of a home should be regarded as of importance at least equal to that of any other work. We do not understand how society can properly continue to sanction for girls high-school curricula that disregard this fundamental need, even though such curricula are planned in response to the demand made by some of the colleges for women.



ARTICULATION OF HIGH SCHOOL AND COLLEGE.

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B. A WORKING DEFINITION OF A WELL-PLANNED HIGH-SCHOOL COURSE.

In view of the foregoing considerations on the field and function of the high school, and to secure courses that shall be sound as integral parts of the larger educational process, your committee recommends the adoption of the following definition of a well-planned high-school course:

1. The quantitative requirement should be 15 units.

"A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work." This definition "assumes that the length of the school year is from 36 to 40 weeks, that a period is from 40 to 60 minutes in length, and that the study is pursued for four of five periods per week." It further assumes that two hours of manual training or laboratory work is equivalent to one hour of classroom work.

We believe that 15 units is a better requirement than 16 units, because:

(1) Quantity should be subordinated to quality.

(2) Overstrain should be eliminated from the atmosphere of the school,

(3). There should be one unit leeway, inasmuch as failure in one unit in one year should neither cost the student an extra year nor tempt the principal to permit such student to try to carry an extra unit the succeeding year.

(4) Students of exceptional ability should be permitted to earn five units per year, thereby shortening the high-school period by one year.

(5) Students poor in ability should be required to spend five years upon the course, attempting and performing three units each year, thereby diminishing failures and reducing excessive per capita cost of instruction.

Where 15 units is adopted as the required number, it would seem reasonable that physical training and chorus singing should not be counted toward the 15 units.

We further recommend that he practice of admitting students to college weighed down with conditions be disapproved on the ground that it is injurious to the student, to the high school from which he comes, and to the college to which he goes.

2. Every high-school course should include at least three units of English, one unit of social science (including history), and one unit of natural science.

(1) English.—There is at the present time almost unanimous agreement among highschool and college authorities that three or four units of English should be required of all. But the high school should be granted freedom to adapt the work to the real needs of its boys and girls. A course that is good in one high school may not be suited

to the needs of another high school. Uniformity in this subject is utterly disastious. (2) Social science (including history).—High-school courses in history should always be taught so as to function in a better understanding of modern institutions, current

events, and present movements. Courses in economics should be encouraged. Economic discussions are paramount

and ignorance of economic principles is appalling. Every high-school student should be given a practical knowledge of affairs in his

own community—political, industrial, and philanthropic; of the basic principles of State and national politics; and of movements for social reform and international peace.

Any high-school course that secures part or all of the above results should be given full recognition.

((3) Natural Science.--Where a unit of introductory science is taught, it should be recognized as fulfilling the minimum requirement in natural science.

In some schools an introductory course has been worked out based upon physics, with a minimum of principle and a maximum of application, as most advantageously meeting the needs of the pupils. In such a course there should be strict insistence upon accuracy and neatness in the presentation of notebooks and laboratory exercises.



APPENDIX.

Opportunity should be given for individual pupils to work along special lines and to make contributions out of their studies to the work of the class as a whole.

In other schools, introductory science is based largely npon biology. General biological material is used to explain human functions. Personal hygiene, including sex hygiene, is taught. Special attention is paid to problems of ventilation, sanitation, and the elimination of preventable discuses. Effort is made to secure intelligent cooperation with health authorities and to form public opinion regarding higher standards of health. A certain amount of physics and chemistry is also introduced in this course.

Either of these introductory courses would be placed intentionally in the first or second year of the high school.

(4) Physical Training.—Systematic physical training, consisting of exercises and team games, should be required of all students; but this work should not be regarded as counting toward the 15 required units.

3. Every high-school course should include the completion of two majors of 3 units each and one minor of 2 units, and one of the majors should be English.

Intespective of the possibility that the student may go to a higher institution, it is desirable for him to do in the high school a certain amount of work of an advanced character. This provision also makes it possible for a part of the work in college to be a continuation of work done in the high school, thereby preserving continuity in the educational process

We recommend that the following be recognized as majors:

(a) Three units of English. (Required of all.)

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(b) Three units of one foreign language. (Latin, German, French, or Spanish.)

(c) Three units of mathematics. (To include elementary algebra and plane geometry, and selections from plane trigonometry, solid geometry, inter-

mediate algebra, and advanced algebra.)

(d) Three units of social science. (To include selections from history, civics, economics, municipal affairs, and history of industry or commerce.)

(e) Three mits of natural science. (To include selections from an introductory science course, physics, chemistry, astronomy, agriculture, physiography,
elementary biology, advanced physiology, botany, and zoology.)

4. The requirement in mathematics and in foreign languages should not exceed 2 units of mathematics and 2 units of one language other than English.

For admission to engineering courses the requirement of a major in mathematics appears reasonable.

For admission to a distinctively literary or classical course the requirement of a major in one foreign language appears reasonable.

For other students a requirement of more than 2 units of mathematics and 2 units of one language, when not in accord with the dominant interests and aptiludes of the student, appears excessive.

5. Of the total 15 units, not less than 11 units should consist of English, foreign language, mathematics, social science (including history), natural science, or other work conducted by recitations and home study.

The other 4 units should be left as a margin to be used for additional academic work or for mechanic ats, household science, commercial work, and any other kind of work that the best interests of the student appear to require.

No limitations should be imposed upon the use of the margin except that the instruction should be given by competent teachers with suitable equipment in classes not too large, and that the student's work should be of a satisfactory grade.

The recommendation that the subjects from which the margin may be made up about de left entirely unspecified appears to be vital to the progressive development of secondary education. As long as formal recognition must be sought for each new



ABTICULATION OF HIGH SCHOOL AND COLLEGE.

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subject, so long will the high school be subservient and not fully progressive. It ought to be possible for any strong high school at any time to introduce into its curriculum a subject that either meets the peculiar needs of the community or that appears to be the most appropriate vehicle for teachers of pronounced individuality.

This margin of 4 units is not excessive. It amounts to an average of only 1 unit a year. A course containing 11 units of academic or prepared work requires the student to carry, practically throughout the course, three of these subjects at a time. In general this involves the preparation of three lessons a day outside of the classroom: A daily assignment of more than three lessons together with manual training or vocational work in school hours is not conducive to a high standard of excellence. In many of our high schools girls, especially, are subjected to a scholastic routine not designed to develop a strong race, either physically or mentally. (Note: Placing the number of required units of academic or prepared work at 11 instead of 12 allows a leeway of 1 unit in case of a failure in the academic work. In case of no failure by taking 4 units each year the student may accomplish either an extra academic unit or an extra vocational unit.)

The provisions of the foregoing definition may be summarized as follows:

Nine specified units-

3 units of English.

2 units of one foreign language.

2 units of mathematics.

1 unit of social science, including history.

1 unit of natural science.

Two additional academic units.

One or both of these units must be advanced work to meet the requirement of a second major of three units.

Four units left as a margin for whatever work best meets the needs of the individual.

C. REASONS FOR THE ADOPTION OF THIS DEFINITION AS THE BASES OF COLLEGE ADMISSION.

-College admission should be based solely upon the completion of a well-planned high-school course. The committee submits the following argument in defense of this proposition:

• First. On the one hand, many students do not go to college because they took those courses which were dictated by their aptitudes and needs instead of courses prescribed by the colleges.

On the other hand, many students do not take the courses which they need because they think they may go to college.

A committee of the Boston Head Masters'Association, in a seport approved by that association last fall, stated the difficulty as follows: "It frequently happens that a pupil in the public high school does not discover that he is likely to go to college until one, two, or three years of the high-school course have been completed. As matters stand now, many of the courses in which he has received instruction and in which he may have done excellent work are entirely useless to him in so far as he may apply them to the purposes of college admission. The committee are of the opinion that this is decidedly wrong."

The idea that the student should, early in his high-school course, decide whether he is going to college ignores one of the chief functions of the high school; namely, that of inspiring capable students with the desire for further education. It is coming to be clearly recognized that the chief characteristic of education in a democracy as contrasted with that in a society dominated by class distinction is the principle of the "open door." This principle of the "open door," is part of the great idea of the



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conservation of human gifts. It demands that personal worth should be recognized wherever found. The college is one of the many doors that should be kept open. The colleges themselves bear tribute to this principle in the innumerable scholarships that they offer to boys and girls in humble circumstances. In fact, it has long been accognized in this country that one boy who seeks a college education because of a strong inner purpose in the face of abstacles is worth to the college and to society a dozen boys who go to college merely because it is regarded as the proper thing to do.

Second. The attempt that is often made to supplement the work now required by the colleges with such additional work as is required by the community and by a more adequate understanding of the needs of real boys and girls is highly unsatisfactory. May 7, 1910, the High School Teachers' Association of New York City issued a statement in which they affirmeds

"We believe that the interests of the 40,000 boys and girls who annually attend the 19 high <u>schools</u> of this city can not be wisely and fully served under present college entrance requirements. Our experience seems to prove the existence of a wide discrepancy between 'preparation for life' and 'preparation for college' as defined by college entrance requirements.

"The attempt to prepare the student for college under the present requirements and at the same time to teach him such other subjects as are needed for life is unsatisfactory. Under these conditions the student often has too much to do. The quality of all his work is likely to suffer. The additional subjects are slighted because they do not count for admission to college. In such a course it is impossible for the student to give these subjects as much time and energy as social conditions demand."

Third. Even by faithfully following the usual college prescription, the best preparation for college is not secured. Abraham Flexner, in his book "The American College," shows how the college is standing in its own way. He says that "The motive on which the college vainly relies, self-realization, has got to be rendered operative at the earlier stage." "As a matter of fact," he adds, "the secondary period is far more favorable than the college to free exploration of the boy." The restrictive preparatory courses prescribed by the colleges do not afford the kind of experience needed in the high school.

Fourth. In the attempt to prepare for the widely varying requirements of different colleges, the energies of the school are dissipated. The energy that should be devoted to meeting actual individual needs of students is expended upon the study of college catalogues. An institution that should be encouraged to develop internally is made subordinate and subservient. As an illustration of the confusion in the requirements of different colleges, we find that one college requires one foreign language, counts work in a second, and gives no credit for a third; another college requires two foreign languages and requires one unit in a third, unless music or physics is presented as a substitute; and a third college absolutely requires three foreign languages.

Fifth. But by far the most serious objection to the present condition i_5 , as Commissioner Sneddeu says, to be found in the restrictive effect upon true high-school development. The high school development in which our greatest educational problems should be worked out. High school attendance in this country has increased a almost fourfold within the last 20 years. If the college will recognize the true function of the high school, this marvelous growth will continue unabated and the American high school will become an institution unparalleled as a factor for democratic living. It is doubtful whether any nation ever before possessed such an opportunity,



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SUPPLEMENTARY REPORT. The committee submits the following additional statement and recommendation: The universal education to which our institutions are now committed is radically different from the education for a literary class to which we were formerly devoted. So long as our education was designed for the few it was possible to require candidates for that education to conform to a certain definite intellectual type and to reject all other candidates. That type was defined in terms of Latin, Greek, and mathematics-substitutes not allowed. This definition actually debarred many individuals who did not entirely conform to the type, but who possessed other strong qualities that would have made them valuable members of the learned professions. Nevertheless the injustice of this procedure aroused no strong opposition because there were a sufficient number of other candidates conforming to the type to fill the very limited number of positions in the then existing professions. As soon as the advantages of a higher education made a strong appeal to a somewhat larger group of men and women, the rigor of the former requirement of Latin, Greek, and mathematics was relaxed by reducing the amounts required and by allowing a substitution of modern language for part or all of the classical languages. This process was characterized by its opponents as "letting down the bars." Such it was, not so much in the sense that it made education easier, as in the sense that it permitted education to make its appeal to a much larger group of men and women. We believe that the time has arrived when it is the duty of those engaged in education to consider the importance of making our education appeal to still other students. To-day it is impossible in many communities for a boy or a girl to obtain even a highschool education unless he or she can do passing work in both mathematics and a foreign language. Schoolmen in general are familiar with students, usually girls, who do good work in languages, history, and certain sciences, but who can not master highschool or college mathematics. There are other students, mostly boys, who do good work in mathematics, science, and history, but who have exceptional difficulty with foreign languages. A student of the latter type would find an ple field for the exercise of all his linguistic ability in a reasonable mastery of the English language. In the East we find a tendency to attach particular importance to the study of foreign languages, and in the West we find a tendency to emphasize mathematicas. But native abilities are not geographical quantities. We believe that insistence upon the study of mathematics and foreign handling as a sine qua non of an education is based largely upon the belief-that both are indispensable for intellectual discipline. But we know that many of our greatest uen have been deficient in one or the other of these accomplishments. They evidently secured their intellectual power by other processes. The disciplinary possibilities of other subjects are not yet fully recognized. In view of the foregoing statement, we recommend that section 4 of the definition of a well-planned high-school course be supplemented by the following additional statement: 4 (a). In place of either two units of mathematics or two units of a foreign language, the substitution, under proper supervision, should be allowed of two upits, consisting of a second unit of social science (including history) and a second unit of natural science. In other words, there should be allowed, under proper supervision, the selection of four units from the following: (1) Two units of one foreign language.' (2) Two units of mathematics. (3) Two units consisting of a second, unit of social science and a second unit of natural science.



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According to this provision, it would be possible under proper supervision to substitute the work in columns (B) or (C) for the work in column (A).									
English Foreign language Mathematics Social science Natural science		(A) 3 2 2 1 1	(B) 3 2 0 2 2	(C) 3 0 2 2 2 2					
Total specified. To which must be add	ed to make another major	9, 1 or 2	9 1	9 1					
 Consequently the student without mathematics must present three units in two subjects and two units in the two remaining subjects, thereby demonstrating ability in fear lines of work. Similarly, the student without foreign languages must present three units in two subjects and two units in the two remaining subjects. To carry out this plan we would urge that at least many of the larger colleges should make special provision to continue the edwation of students of whom it has been discovered that the requirement of mathematics or the requirement of foreign language is an obstacle - to the continuation of their education. Respectfully submitted. CLARENCE D. KINOSEEY, Chairman, Manual Training High School, Brooklyn, N. Y. [Now Agent of Massachusetts State Board of Education.] WILLAM M. BUTLER, Principal, Yeatman High School, St. Louis. Mo. FRANK B. DYER, Superintendent of Schools, Cincinnati, Ohio. [Now Superintendent of Schools, Boston, Mass.] CHARLES W. EVANS, Principal, High School, East Orange, N. J. CHARLES H. JUDD, Professor of Education, University of Chicago, Ill. ALEXIS F. LANGE, Dean of College Faculties, University of California, Cal. W. D. LEWIS, Principal, William Penn High School, Philadelphia, Pa. WILLIAM M. SMILEY, Principal, East Side High School, Deever, Colo. 									
The chairman herewith appends the following statement from Prof. Charles II. Judd, expressing the opinion that even greater latitude should be allowed to the high school and explaining an important principal that should at this time be brought to the attention of all concerned with the relations of school and college. My Dear Mr. Chairman: In signing thereport, I am very glad indeed to express my sympathy with the general outlines of the whole statement which is here made by the committee. It is my opinion that somewhat greater latitude should be allowed the high school in the organization of its courses. To this end, I should personally prefer that the various requirements be not specific in terms of the subjects. The only specification which I find it possi- ble to favor is that which requires a certain amount of coherent work in the high school. To this end, I believe that it would be wiser to require two majors of three units, and one minor of twe units. This is in keeping with the plan recently adopted by the University of Chicago. These other principle should, I believe, be incorporated in any report which deals with the relations of high schools and collegest. These two institutions should follow up the work of high school students much more completely than is now done. A stu- dent why comes from a high school into a college should have his relative rank in the									



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high-school class reported to the college. The work he is carrying on in the college should be carefully observed, and reports should be sent back to the high school, stating the rank of the student in college. Both institutions would profit by this exchange of information. The college would learn by such a comparative study of the student's work whether or not its courses are articulating directly with those of the high school. The high school would learn whether or not it is articulating with the college. It does not necessarily follow that the high school should in every case articulate with the college in such a way as to insure the high standing of its students in college.

Without attempting to pass on that question, however, the information that would be gained by the study of relative marks would be very valuable for the purpose of bringing to the consciousness of both institutions the character of the work which the students are able to do.

I should appreciate the opportunity of adding this comment to the report, if you do not feel that it would encumber the committee's statement. In any case I am prepared to sign the general report. These comments are merely added in the hope that the principles outline! in this report may be extended somewhat further than the committee has found it expedient to carry them.





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70. Vocational subjects, number of prescribed units, colleges of liberal arts, 12-17.

W.

Wabash College, entrance requirements, 56. Wake Forest College, entrance requirements, 65. Washburn College, entrance requirements, 58.

- Washington and Jefferson College, entrance require-

Washington and Lee University, engineering school entrance requirements, 86; entrance require-ments, 70.
 Washington, Btate College of, engineering school, en-trance requirements, 86.
 Washington, University of, engineering school, en-trance requirements, 85, 96; entrance require-ments, 70.
 Wells College, entrance requirements, 50.
 Wells College, entrance requirements, 55.
 West Virginia University, cutrance requirements, 54.
 West Virginia University, 98; engineering school, en-trance requirements, 89; engineering school, en-trance requirements, 89; engineering school, en-trance requirements, 89; engineering school, en-trance requirements, 89; entrance requirements, 71.

Western College for Women, eutrance requirements, 66.

Western College for Women, eutralice requirements, 66.
Western Reserve University (for men), entrance requirements, 66; (for women), entrance requirements, 66.
Whitman College, entrance requirements, 71.
William Jewell College, entrance requirements, 67.
William Scollege, entrance requirements, 60; total units required, 20. –
Wilson College, entrance requirements, 60; wilson College, entrance requirements, 68.
Wilson College, entrance requirements, 69.
Wisconsin, University of, asricultural school, entrance requirements, 87; entrance school, entrance requirements, 87; entrance requirements, 71; number of preseribed units, 13.
Woofford College, entrance requirements, 68.
Wooster, Univorsity of, entrance requirements, 68.
Wooster, Univorsity of, entrance requirements, 68.
Wootset, Univorsity of, entrance requirements, 68.
Wootset, S3.

Wyoming, University of, agricultural school, en-trance requirements, 96; engineering school, en-trance requirements, 87; entrance requirements, 71.

Yale University, entrance requirements, 54; total units required, 20. Yankton College, entrance requirements, 69.



