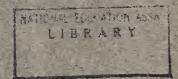
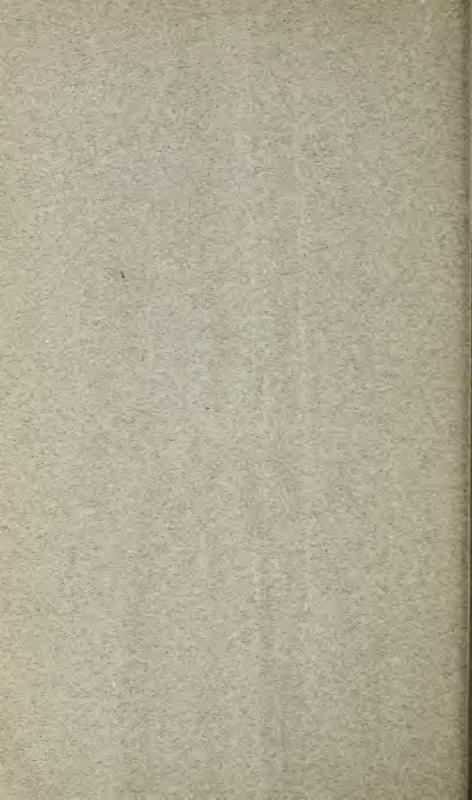
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF EDUCATION BULLETIN (1927) - No. 14

PHYSICAL EDUCATION IN AMERICAN COLLEGES AND UNIVERSITIES





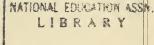
DEPARTMENT OF THE INTERIOR BUREAU OF EDUCATION

BULLETIN, 1927, No. 14

PHYSICAL EDUCATION IN AMERICAN COLLEGES AND UNIVERSITIES

By

MARIE M. READY





UNITED STATES GOVERNMENT PRINTING OFFICE WASHINGTON 1927 - source of the confidence

BULLING VENUE

PHYSICAL ROUGADON IN AMERICAN COLLECES AND UNIVERSITIES

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CONTENTS

		Page
L	etter of transmittal	v
F	oreword	VI
	Requirements relative to the physical condition of students at entrance.	1
2.	Required work in physical education	11
	Military training	15
	Hygiene	21
5.	Athletics	23
	The students health service	28
7.	Equipment for physical activities	33
8.	Summary	41
	ist of the institutions in the investigation	43
A	ppendix:	
	1. Institutions requiring or urging vaccination for smallpox and	
	typhoid for college entrance	47
	2. Selected bibliography	48
	III	



LETTER OF TRANSMITTAL

DEPARTMENT OF THE INTERIOR, BUREAU OF EDUCATION, Washington, May 10, 1927.

SIR: Notwithstanding much agitation for the promotion of physical education in our institutions of higher education, facilities and training along this line are still too much concentrated upon the few students who offer favorable material for the production of university teams in intercollegiate athletic contests. While sports of this kind are to be encouraged, it must not be overlooked that the average student needs and should have due attention paid to his physical welfare. The present status of opportunities afforded the rank and file of students is reviewed in the accompanying bulletin, and I believe that its publication will be a stimulus to many institutions to measure up to their opportunities for the preservation and promotion of sound bodies along with sound minds.

Respectfully submitted.

JNO. J. TIGERT, Commissioner.

The SECRETARY OF THE INTERIOR.

v

FOREWORD

A study of the status of physical education, military training, and hygiene in 182 American colleges and universities is presented in this bulletin. The list of institutions chosen for this investigation was used in a series of similar studies dealing with college entrance and graduation requirements. The list is intended to be representative of the different types of colleges and universities in the United States. The information was secured from the catalogues of the institutions. The material collected was recorded on a questionnaire, which was sent to each institution to be corrected or approved. A few institutions failed to return their questionnaires, but where the information required is clearly given in their catalogues, it is included in this study; otherwise it is omitted.

VI

Physical Education in American Colleges and Universities

1. Requirements Relative to the Physical Condition of Students at Entrance

The requirements of colleges and universities relative to the physical condition of the student at entrance may be considered from the following standpoints: Number of institutions requiring a medical examination of the student at entrance; general outline of the medical examination prescribed; detailed analysis of the medical examination prescribed; value of physical efficiency tests, as a part of the examination; value of the medical examination of the student; continuous records of the student's physical condition; corrective gymnastics prescribed, and their credit value; vaccination for smallpox; vaccination for typhoid; unit entrance credit for physical education in secondary schools; and unit entrance credit for military training in the secondary schools.

Medical examination at entrance.—The physical condition of the student at entrance is now considered to be of such importance that only a few colleges will accept a health certificate signed by the student's home physician. Medical examination is required at entrance by 55 public and 74 private institutions, about 70 per cent of all those included in this study. In addition, it is required before the end of the first month by 7 public and 5 private institutions.

General outline of medical examination prescribed for students at college entrance.—The medical examination prescribed for each student at college entrance varies slightly in different institutions. In general, however, it calls for a brief account of the parental health history, along with the student's precollege health record. It always includes a careful medical examination of all the vital organs of the body. It frequently includes posture tests, the results of which are usually recorded in chart form; and it sometimes includes efficiency tests.

Health history of parents.—Information is usually recorded showing the occupation of each parent, the state of health of each, if living, along with a record showing whether either one has ever suffered from tuberculosis, cancer, mental disease, or apoplexy. Goiter is sometimes included in this list. Health history of students.—The precollege health history of the student consists of a record of all the diseases a student has had previous to college entrance, together with a statement of any ill effects which remained with the student after recovery. The student is asked to check this information on a card containing a list of diseases, and to state the age at which he had each one. The following diseases are usually mentioned on these cards: Mumps, whooping cough, chicken pox, scarlet fever, typhoid fever, chorea, neurasthenia, appendicitis, tonsillitis, asthma, skin eruptions, pleurisy, otitis media, tuberculosis, rheumatism, diphtheria, adenoids, enlarged glands, hay fever, and influenza.

Detailed analysis of medical examinations of students.—The medical examination prescribed includes a complete examination of the student in order to find out the exact physical condition of the various vital organs of the body, including eyes, ears, nose, throat, heart, and lungs. If any condition is found needing medical attention, it is urged immediately.

Other information included in the medical examination.—Most institutions record information concerning health habits of the students, such as the frequency of baths; the use of a cold plunge or shower; the amount of sleep; diet, including the use of tea, coffee, tobacco; and the use of other stimulants or drugs.

A record is also made of the student's previous work in physical education, including athletics; and of his present methods of recreation, along with a statement of the amount of outside work he is doing, if self-supporting while in college.

Value of physical efficiency tests.—Sixty-five institutions (27 public and 38 private) include physical efficiency tests as a part of the medical examination required of all students at entrance. Most of these institutions prescribe these tests to enable the physical directors to classify first-year students into classes where they will take part in physical activities suitable to their strength. Considerable difference of opinion exists regarding the value of the tests given and the methods used. The fact that only one-third of the colleges and universities included in this study are doing work of this kind indicates that physical efficiency tests are considered as yet merely in an experimental stage of development.

Value of medical examination.—The medical examination given each student is very valuable. Besides discovering physical faults of which he may be unaware, it clears up the student's mind regarding any fears he may have concerning his own physical condition. It is helpful to the instructor, especially in the classification of all first-year students. It shows very clearly those who need corrective gymnastics, likewise those who are especially fitted, on account of possessing good mechanical use of the body, for more difficult or strenuous exercise.

Continuous records of students' physical condition.—Seventy-nine institutions of our list, including 32 public and 47 private, after conducting thorough medical examinations at entrance, have follow-up systems and keep continuous records of the students' physical condition during their entire college course. Three public and three private institutions do likewise until the second year. Five public and five private institutions keep records of special cases or sometimes partial records of all students. One private institution does this for one year only. Altogether, 96 institutions attempt, for a time at least, to keep continuous records regarding the physical condition of students. This policy, which is now becoming generally accepted, is especially beneficial for those overstudious persons who fail to take sufficient care of their physical condition and who frequently at the end of the first or second year begin to suffer a loss of health.

Corrective gymnastics and their credit value.—Corrective gymnastics are prescribed and required of students needing same by 70 per cent of the institutions included in this study. Many institutions have this work given by specialists and allow semester hours' credit for it. A few institutions do not grant semester hours' credit value to this subject, but are urging that the secondary schools should attend to this work more carefully, and thereby reduce to a minimum the need for corrective gymnastics to be given by the colleges and universities.

Vaccination for smallpox.¹—Vaccination for smallpox is made a definite requirement by 58 colleges and universities, including 25 public and 34 private institutions. Six other institutions urge or require it in emergencies only, and one requires that it should be done within two years of entrance. In most cases this requirement is a part of the R. O. T. C. regulations.

Vaccination for typhoid.¹—Vaccination for typhoid is required by 13 institutions, including 5 public and 8 private. While 7 other institutions urge this policy, the majority feel that it is necessary only in certain localities or in case of an epidemic.

Unit entrance credit for high-school physical education.—The question of allowing any entrance credit for high-school work in physical training is a new problem. Eleven institutions indicate that they would favor giving credit in this subject. Only two of these indicate that they really allow this credit. Louisiana State University allows one unit for high-school physical education in cases where the students obtained such credit toward high-school graduation. The College

See appendix for list of institutions requiring vaccination for smallpox and typhoid for college entrance. 47662-27----2

of the City of New York allows one-half unit. Baylor College and South Dakota State College favor this policy. The other institutions favoring this plan include State College of Washington, Colorado Agricultural College, Montana State College, North Dakota Agricultural College, University of North Dakota, Purdue University, and the University of Kentucky.

Unit entrance credit for military training in secondary schools.—The question of allowing unit entrance credit for military training given in secondary schools presents a new problem for consideration. Three public institutions—the University of Alabama, the University of California, and Louisiana State University—allow onehalf unit for this work. The following institutions approve of giving entrance credit for military training given by the secondary schools: Purdue University, University of Maine, University of Cincinnati, Montana State College, Mississippi Agricultural and Mechanical College.

The private institutions do not seem to favor the policy of giving entrance credit in this subject. TABLE 1.—Requirements of institutions relative to the physical condition of the student

Remarks (value of) concerning corrective gymnastics	8	Important.		Necessary	Great value for women. ⁷ (%)
Corrective gymmastics directed by specialist	æ	Yes. Military de- partment. Yes.	Yes. Yes. No	Yes	(4) Yes Yes Yes
Corrective gymnastics given students needing same	P	Yes. Military de- partment. Yes.	Yes ¹ Yes ¹ No- Yes ¹ Yes ¹ Yes ¹ Yes ¹ Yes ¹ Yes ²	Yes Yes	Yes 1 Yes 1 Yes 9 Yes 9
Efficiency test determines type of work student is per- mitted or required to take	9	Yes.	Yes. Partly No- Partly Partly	Yes	Yes. Partly. Yes
Physical effi- ciency tests given	D.	No	Yes Yes No- No- No- Yes Yes Yes	Swimming test. Yes; first	Yes Yes No. Partly Yes Yes Yes Yes Yes Yes
Continuous record kept showing physical condition of student	4	No	Yes. 2 years Yes, 2 years Yes. 2 years Yes.	No	Yes. Yes. Yes. Yes.
Medical exam- ination at any other time	m	No. No.	Yes Bach quarter- When needed No. Yearly Yearly	First month	Yearly When neces- sary. Yearly No
Medical examina- tion at entrance	8	Yes No	Yes Yes No. No. Yes Yes Yes Yes	Yes	Yes Yes Yes Yes Yes
Institution	-	Public Alabama Polytechnic Institute. University of Alabama. Triversity of Arizona	University of Atkanssa. University of California. University of Calorado. Colorado Arrieutural College. Connectiont Arrieutural College. University of Indra. Fiorida State College for Women. University of Idaho. University of Idaho. University of Idaho. University of Idaho. University of Ollege of Agriculture and Mechanic Iova State College of Agriculture and Mechanic	Arts. State University of Iowa University of Kansas	Kansas State Agricultural College University of Kentueky Louisiana State University and Agricultural and Mechanical College. University of Manue. University of Manue. University of Manue. University of Michigan.

[For locations of the institutions, see p. 43]

9

Footnotes at end of table.

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TABLE

-	Remarks (value of) concerning corrective gymnastics	6		Important. ⁹ Do.	Do. Dole	(01) (01)	Real value. Important. (l) Important,
	Corrective gymnastics directed by specialist	90	Yes. Yes. No	Could be Yes	Yes Yes Yes Yes Yes	Yes ⁴ No Yes	Y es Y es Y es Y es
	Corrective gymnastics given students needing same	2	Yes 1 Yes	Advice only 9	Yes Yes; clinic 1. Yes Yes 1.	Yes Yes Women only 12	Yes Yes Yes Yes Yes
	Efficiency test determines type of work student is per- mitted or required to take	6	Yes. Yes No ³	Medical ex- amination. No- Yes.	Yes No No Second vear	Yes Yes No-	Yes Yes Yes
	Physical effi- ciency tests given	10	Yes; also pos- ture. In class work. No	No	N0	year. Teams only Yes Ariny tests Schneider's	Yest. Fact semester No. Fxamhation only. No.
	Continuous record kept showing pliysical condition of student	4	Y ess Y ess No	1	Yes Yes Yes	No- Yes Yes	Yes Yes Yes 2 years
	Medical exam- ination at any other time	m	First and Unird Yes- Years. Yes. Yes. Yes. Yos. No. No.	Yes Optional Shortly after	Yearly Twice ycarly.	Not regularly.	No- Yearly Yes Yes
	Medical examina- tion at entrance	¢2	Yes Yes Yes Yes	Yes Yes Yes Yes	Yes Yes Yes Yes	Yes Yes Yes	Yes Yes Yes Yes Yes
	Institution	1 Dubbe-Continued	Michigan Agricultural College Michigan Agricultural College Missispipi Agricultural and Mechanical College Morievasity of Missoint	Montana State University. University of Nebraska University of Nebraska University of Neovada New Hampshire Collego of Agriculture and Me- chanic Arts University of New Mexico	Arts. And Other of the clip of the clip of the clip of the clip of the Work. College of the City of New York. University of North Carolina. University of North Carolina. North Carolina State College of Agriculture and	but therefung. Duriversity of North Dakota. University of North Dakota. University of Akron	Ohlo State University

PHYSICAL EDUCATION IN AMERICAN COLLEGES

	*	dood for wom- ou. Dood, if need- ed.	Small value. Important, Semestor-hour or edit al- bowed. Valuable.	
(ar)	ÊÊ	Good f en. Good, ed.	Sum Imu Sen Sen Vai	
Yes No- No- No- No- Yes Yes Yes Yes Yes, staff	Y cs.	Yes. Yes. Yes.	Yes Yes Nos Yes Army officers	
Yes 1 No. Yes 2 No. Yes 10. Men, po; wom Yes 2 Yes 2 Yes 2 Yes 2 Yes 2 Yes 2	Y es 1. Women only Y es 1.	Yes ¹ Yes ² Yes Only to those in liberal-		
Yes. (3)	PartlyNoNoNo	Yes, for mon	No 3 No 3 (0)- (0)- No- No- Yos- Yos-	
Y es No No No No A thiete teams Y es Y es Y es Y es Y es Y es Y es	Y cs. Y es. No. No.	No. Yes No. In first year.	Yes No No No Frist year	
Y es. No. No. No. No. No. No. No. Yes. Yes. Yes. Yes.	Ilospital rec- ord only. Yes. Yes	No. Yes Yes No.	Yes. Yes. Yes. Yes. Yes. Not complete. 2 years.	
Yes For R.O.T.O. Yes No. If needed Twiee yearly. Yes Yes Yes Yes	Yes.	Yes "fPollow-up casos." No	Yearly and Vearly and Vearly and Seniors Seniors No. Vearly Yearly Yearly Yearly Yearly Yearly Yearly Yearly	
Yes No Yes Yes Yes Yes Yos	Yes.	Yes Yes Yes	Yos Yos Yos Yos Yos Yos	
University of Oregon	University of Virginia. State College of Washington University of Washington. University of Wasoning. University of Wyoming. Private	Birmingham-Southern College University of Southern California Leland Stanford Junior University. Colorado College University of Denver	Wesleyan University	Footnotes at end of table.

PHYSICAL CONDITION OF STUDENTS AT ENTRANCE 7

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institutions
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1Requirements
TABLE

Institution	Modical examina- tion at entrance	Medical exam- ination at any other time	Continuous recerd kept showing physical condition of student	Physical effi- ciency tests given	Efficiency test determines type of work student is per- mitted or roquired to take	Corrective gymnastics given students needing same	Corrective gymnastics directed by specialist	Romarks (valuo of) concerning b, correctivo gymnastice
	3	e	4	2g	9	2	80	5
<i>Private</i> —Continued Knox Collogo	Yos.	Illness only	O. K'd by hoalth de-	Yos.	Yes.	Yes	No	
Barlham College. Barlhaur University. University of Notro Dame. Drake University. Grianell College.	Yes Yes No Yes, wom- en; 110,	Yoarly No.	partment. Yes. Yes. women, no, men.	Y 03 Y 05 Y 05 Y 05	Parthally Yos	Y 08 Y 08 N 00 Y 08 Y 08 I	Y 68 Y 68 N 00 Y 68 Y 68	Important. Do.
Cornell College. Bater University. Bater College. Bavdoin College. Bates College.	Yes.	As needed Not regularly Not for all Special cases	7_Yos_10Xos_10Xos_10Xos_10Xos_10Xos_10Xos_10Xos_10Xos_10XOS_10XOS_10XOS_10XOS_10XOS_10XOS_10XOS_10XOS_10XOS_10XOS_10XOS_1000XOS_1000XOS_1000XOS_1000XOS_1000XOS_1000XOS_10	Y 65 Y 65 N 0 N 0 N 0	Yos Yos	Yos Yos Yos Yos	Yos Yos Yos Physical edu- cation direc-	Most effec- tive,
Goucher College Johns Hopkins University Amberst College	Y ₀₅ Y ₀₅	Yes- For athletics-	Yes Yes Yes	No	Yes- Sometimes	Y es Y es	Vo. Yos	Important.
Simmons Collego Maradi University. Massuchusetts Instituto of Technology. Radeliffe Collego Beston Collego Smith College	Yes. Yes. Yes. Yos. No. Yes.	As nooded	No	Yes No	(a)	Yess ¹⁰ Yess Yess No	Y 68 Y 68 Y 68 Y 68 N 0. Y 68	Do. Do. Necessary in proscribing pirysical
Mount Holyoke College. Tutts College. Williams College.	Yes Yes Yes Yes	Yes No-oed	Yes 2 years No- Yes	Yos Yos Yos	Y cs Y cs Y cs	Yes 1 Yes 1 Yes 1 Yes 1	Y 0S Y 0S Y 0S Y 0S	(1) (9) Yes.

PHYSICAL EDUCATION IN AMERICAN COLLEGES

		Important.	Do.	Should be given.)		Value for spe- cial cases.	Great value.		First 2 years.		"Limited	
(4)	Physical di-	Yes.	Yes.	Yes	Yes 4	Yes Yes Yes	Yes 1	Yes-	Yes.	Yes. Yes.	Ycs Yes (extra charge).	Yes	Yes
Yes	Partially	Yes Yes Yes	Yes Yes	Yes	Yes 1 Yes 1 Yes 1	Yes Yes Yes Ves	Yes	Yes ¹ Prescription	Yes. No Yes.	Yes. Yes.	Few cases Yes1 Yes2	Yes.	Yes
No		Yes, partly	Yes		Yes Yes No	Yes	(3)	Y es	Yes. No. Yes. "E xamina- tions must	ered." (3) No	No. Yes	Yes	Yes
Strength test No.	No	Often for teams Yes	Yes	No	Yes Yes No ²	N0	No	Yes	YesSometimes Sometimes Yes No	Yes. No.	No No	Yes.	No. Strength tests.
Yes	Yes	Yes. when de-	fects exist. Yes	Yes	Yes Yes Yes	No. Yes	Yes	Special cases Not of all stu-	No	NoYes	No Yes	Yes	No
Twice a year	Mid-year	Yearly	Sports season End of first and third	years.	In special cases Second year Yearly End first and	Yearly No	ycars. Jst year and whon nees.	Sary. Yes.	As needed Rarely Yes	Yes of each	year. Yes Annually Yearly	2d year ¹ End of 2d year. Yearly for 2	For teams
After en-	trance. Yes	Yes Yes Yes	Yes	Yes	Yes. Yes. Yes.	Yes. Yes.	Y es	Yes	Yes Yes Yes	Yes. No. Yes.	No. Yes.	Yes Yes	Yes
Clark University	Worcester Polytechnic Institute	Washington University (St. Louis, Mo.) Dartmouth College	Princeton University	University of Buffalo	Hamilton College Colgate University Conal University Barrard College	Columbia University Fordham University New York University	Vassar College University of Rochester	Syracuse University. Rensselaer Polytechnic Institute	Duke University	Oberlin College. Antioch College. Reed College.	Willamette University, Salem. Lehitgh University. Bryn Mawr College.	Lafayette College. Haverford College. Temple University.	University of Pennsylvania University of Pittsburgh

6

Footnotes at end of table.

PHYSICAL CONDITION OF STUDENTS AT ENTRANCE 9

Institution	Medical examina- tion at entrance	Medical exam- ination at any other time	Continuous record kept showing physical condition of student	Physical effi- ciency tests given	Efficiency test determines type of work student is per- mitted or required to take	Corrective gynmastics given students needing same	Corrective gymnastics directed by specialists	Remarks (value of) concerning corrective gymnastics
1	3	60	4	цġ	9	7	æ	6
Private-Continued			And a second sec	1				
Swarthmore College Washington and Jefferson College Brown Untersity Converse College.	Yes. Yes. Yes.	Yearly Find of year Yes. 3d, and	Yes. Yes. Yes.	Yes. Yes. No.	Yes. Yes.	Yes. Yes. Yes!	Yes. Yes. Yes.	
University of Chattanooga Vanderbilt University University of the South	No- Yes	Vo	No. Yes. Yes.	No. Yes. No.	Yes. No.	No. Yes. Yes.	Yes Yes	Special cases.
ee University Woman's College	No Yes Yes	0N0-	No	No Yes	Yes. "No; work given as a	Yes Yes	Yes Yes	Important.
University of Richmond . Sweet Briar College	No	No. Yes	No. Yes	No.	amination."	Yes1	Graduates of n o r m a l schools of p h y sical	
Whitman Collego. Beloit College.	Yes					Yes	ēdučation. Yes	-
¹ Semester hour eredit is allowed for corrective gymnastics when prescribed instead of the regular required class work.	ymnastics w	nen prescribed i	gy	7 Semester hour cree gymnastics.	lit is allowed in	elective or teach	er training cour	7,8emester hour credit is allowed in elective or teacher training courses in corrective mustices.

² Athletic teams have special medical examinations.

Medical examination is the basis for classifying students in physical education classes.
 Orrective gymmastics are given by the regular staff.
 Corrective gymmastics are required of all men excused from military training on account of physical disability.
 Standard high selivol enables a student to enter advanced classes in physical

education.

If Yearly in medical college. Two years only in liberal arts college. If Funds for providing this for men are not available. A presen physically sound may select his own exercise. Concerve are an available are required but not a part of the curriculum.

⁹ Most important of all branches of physical education, but undeveloped. ¹⁰ Important part of all work in physical education.

⁸ No semester hour credit is allowed.

c

TABLE 1.—Requirements of institutions relative to the physical condition of the student—Continued

Θ

2. Required Work in Physical Education

A large number of institutions require a certain amount of physical education as a part of every undergraduate course leading to a bachelor's degree. There is a general tendency toward requiring this work for two years and allowing four semester hours credit for it. However, there is a difference of opinion regarding this matter and the policies of institutions vary, not only in the number of years physical education is required by the various departments or colleges, in colleges and universities, but also in the number of years prescribed for men and women and the amount of semester hours credit allowed for this work.

Table 2 shows the number of years during which physical education is required of men and women, and the semester hours credit allowed for the work.

TABLE	2.—Requirements	regarding	physical	education	and	semester	hours	credit
	-	allowe	d for this	work 1				

Institution		nber of required of—	hour	nester s credit owed	hours I	emester equired degree	total	cent of in physi- lucation
	Men	Women	Men	Women	Men	Women	Men	Women
1	2	3	4	5	6	7	8	9
Public			0				0	
Alabama Polytechnic Institute University of Arizona University of Arkansas		$\frac{2}{2}$	0	4 6	144	125 134		3. 2 2. 9
University of California University of Colorado	$\frac{2}{2}$	2	$\frac{2}{6}$	2	124 124	124	1.6 4.2	1.6
Colorado Agricultural College Connecticut Agricultural College 1	2	32	4	6 3	160 140	160 140	2.5 2.1	3.7 2.1
University of Florida	2		32	0	136		1.4	0 2.1
Florida State College for Women University of Idaho	2	$\frac{3}{2}$		24	128	124	6.2	3.1
University of Illinois	4	4	4	4	120	120	0	0
University of Indiana Iowa State University	2	$\frac{1}{2}$		0	124 124	124	0	0
Iowa State College of Agriculture and Me- chanic Arts ¹	2	2	0	2	140	140	0	0, 9
University of Kansas	2	2	Ŏ	Ō	120	120	Ō	0.3
Kansas State Agricultural College ¹ University of Kentucky	2	$\frac{2}{2}$	0 2.8	4 2.8	127	127	$ \begin{array}{c} 0 \\ 2.2 \end{array} $	2.2
Louisiana State University and Agricul-	-	-			121		2. 2	
tural and Mechanical College University of Maine	04	$\frac{2}{4}$	0 3	4	125	144 125	2.4	2.7 2.4
University of Maryland Massachusetts Agricultural College ^{1, 2}	ō	2	0	8		129		6.2
Massachusetts Agricultural College 1, 2	2	2	9 0	9	158 120	158 120	3.7 0	3.7 0
University of Michigan Michigan Agricultural College ¹	2		Ō				0	
University of Minnesota Mississippi Agricultural and Mechanical	1	2	0	0	120	120	0	0
College 1	1	0	2	0	160		0	
17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			L	3 - 3 43			12 - A -	1.1.

¹ In general, the requirements of institutions regarding physical education presented in this table refer to the departments or colleges of liberal arts. Inasmuch as several agricultural and mechanical colleges and scientific institutions included in this study do not have departments of liberal arts, the requirements mentioned herein for these institutions refer to departments of agriculture or engineering, and this fact is indicated by footnote 1.

² Physical education is required as a substitute for military training only.

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Institution	years	nber of required of—	hour	mester rs credit lowed	hours 1	semester required degree	total	cent of in physi- lucation
	Men	Women	Men	Women	Men	Women	Men	Women
1	2	3	4	5	6	7	8	9
Public-Continued								
Mississippi State College for Women		4		8		140		8.5
Missispi of Missouri Montana State University Montana State College 1 University of Nevada University of Nevada		2		4		124		3.2
Montana State University	2	22	0 4	0 4	120 128	120 128	0 2.7	0 2.7
University of Nebraska		2		4		128		3.2
University of Nevada	2	2	3	3	124	124	2.4	2.4
New Hampshile Conege of Agriculture and	2	3	3	6	144	144	1.3	2.7
Mechanic Arts State University of New Mexico New Mexico College of Agriculture and	2	2	0	ŏ				
New Mexico College of Agriculture and		2		4		144		1.0
Mechanics Arts College of the City of New York	2	Z	4	4	134	144		1.3
College of the City of New York		2		3		125		
University of North Carolina	1	$\frac{1}{3}$	0	03	120	120 126	0	0 4.6
North Carolina College for Women North Carolina State College of Agriculture		0		5		120		7.0
and Engineering	2	2	6			150	0	
North Dakota Agricultural College	2	2		8	125	125	2.4	5.8 2.4
and Digite Ing North Dakota Agricultural College University of North Dakota University of Akron Ohio University		1		2		128		1.5
Ohio University	$\frac{1}{2}$	$\frac{1}{2}$	2 4	2 4	124	124	3.2	3.2
University of Cincinnati Ohio State University	1	$\frac{2}{2}$	2	4	120	124	1.5	$3.1 \\ 3.2$
Miami University Oklahoma College for Women	2	2	4	4	124	124	3.2	3.2
University of Oklahoma		$\frac{2}{2}$	4	4 4	124	124 124		3.2
University of Oklahoma Oklahoma Agricultural and Mechanical			-					
College	$\frac{1}{2}$	$\frac{2}{4}$	3	6 9	129 <mark>1</mark> ⁄3 139	1291⁄3 139	1.4 1.4	2.9 4.2
Oregon State Agricultural College ¹ University of Oregon	2		6	6	124	124	3.2	3.2
Pennsylvania State College Rhode Island State College University of South Carolina	2	2 2	4	4	128	128	3.1	3.2 3.1
Rhode Island State College	4 4	4 4	8	8	$160 \\ 138$	160 138	5.5 4.3	5.5 4.3
South Dakota State College of Agriculture and Mechanic Arts ¹	•		Ū		100			
and Mechanic Arts 1		2 2 2 3		4		136 128		2.9 0
university of South Dakota University of Tennessee University of Teanas College of Industrial Arts	2	2	4	6	132			4.5
University of Texas	2	3	0	0			0	0
College of Industrial Arts Agricultural and Mechanical College of		2		4		124		2.2
	1		0		144		0	
Agricultural College of Utah University of Utah University of Vermont and State Agricul-	$\frac{3\frac{1}{2}}{1}$	$\frac{3\frac{1}{2}}{1}$	63⁄3 3	6 2/3 3	$120 \\ 122$	120 122	1.6	1.6
University of Vermont and State Agricul-	1	1	0	0	144			
tural College	2	2	8	8	132	132	6	6
Virginia Agricultural and Mechanical Col- lege and Polytechnic Institute	1	0	11	0	144		.7	
Virginia Agricultural and Mechanical Col- lege and Polytechnic Institute University of Virginia College of William and Mary State College of Washington University of Washington University of Wisconsin University of Wyoming	2	2	0	0	120	120	0	0
College of William and Mary	1 4	$\frac{1}{4}$	$\frac{2}{4}$	2 4	126 128	126 128	$1.5 \\ 3.1$	$1.5 \\ 3.1$
University of Washington		2		4		1271/3		3
University of Wisconsin	$\frac{2}{2}$	22	8	8	120 126	120 126	1.1	1.1
University of Wyoming	2	2	0	0	120	120	1.1	1.1
Private							1	
Birmingham-Southern College	1	0 2	4		124		3	
University of Southern California Leland Stanford Junior University	$\frac{2}{2}$	$\frac{2}{2}$	4 4	4 4	124 120	$124 \\ 120$	3.2	3.2 0
Colorado College	3	3	6	6	126	126	4.7	4.7
Colorado College University of Denver Trinity College (Hartford, Conn.)	2	2	4	4	$\frac{124}{128}$	124	3.2	3.2
	3		0 3		$128 \\ 126$		4.7	
Vale University Connecticut College for Women Catholic University of America	1		Ő			100		
Connecticut College for Women	2	4	0	8 .	152	130	0	6.1
Howard University		4	10	10	120	120	162/3	16%
Trinity College (Washington, D. C.)		$\frac{2}{3}$		0 -		124		0
University of Chicago	2	2 2	6					
Howard University Trinity College (Washington, D. C.) Agnes Scott College University of Chicago Northwestern University	ī	2	0	0			0	0

 TABLE 2.—Requirements regarding physical education and semester hours credit allowed for this work—Continued

¹ See footnote 1 on page 11.

TABLE	2.—Requirements	regarding	physical	education	and	semester	hours	credit
	- a	llowed for	this work-	-Continu	ed			

	1111		1		1		1	
		nber of required	Sei	nester s credit	Total s	semester equired	Per	cent of in physi-
Institution		required of—	all	owed	for a	degree	caled	lucation
Institution	0.00	1		1		-		1
	Men	Women	Men	Women	Men	Women	Men	Women
1 0	2	3	4	5	6	7	8	9
	A	0	*		0		0	3
Private-Continued	1.11	100						
					104	104	0.0	
Knox College Earlham College	23	2	4	4	124 120	124	3.2	3.2
Earlham College DePauw University University of Notre Dame	32	2	04	4	124	124	0 3.2	3.2
University of Notre Dame	4	2	0	4	124	124	0 3.2	3.2
Grinnell College	2	3	$\begin{array}{c} 4\\2\\4\end{array}$	2	124	120	0	0.2
Cornell College	2	23	4	4	124	124	3.2	3.2
Baker University	$ \begin{array}{c} 2 \\ 2 \\ 2 \\ 3 \\ 1 \end{array} $	1	0 2 0	4 0 2	120 124	120 124	0 1.5	0
Tulane University	1	1	0	Ō			0	0
		3	12 9	9	101 131	101 131	11.8	11.8
Bates College Colby College	$\frac{3}{2}$	4	ŏ	Ō	122	122	0	0
Goucher College		3		0				0
Goucher College Johns Hopkins University Amherst College	$\frac{2}{3}{2}$		0		$125 \\ 132$		0 8	
Boston University	2	2	2	2				
Simmons College Harvard University		1 0		0				0
Smith College		2		0		120		0
Smith College Mount Holyoke College		2		4	100		2.4	0
Tufts College Wellesley College	2	2	3	2	123	120	2.4	1.66
Wellesley College Williams College	2		0				0	
Clark University Worcester Polytechnic Institute ³	$\frac{4}{2}$	4	0	0	120	120	0	0
Carlton College	3	3	0 6	6	124+	124+	0	
Voltester Tolycetine Institute Carlton College Washington University (St. Louis, Mo.) Dartmouth College	3 2	$\frac{3}{2}$	0	Ō	120	120	0	0
Dartmouth College	$\frac{2}{2}$		0		122		0	
Darimount conge	1		6		110		5.4	
Wells College		$\frac{2}{1}$		4		124	3.2	
Hamilton College	4	1	24	2	140	128	1.5 10+	
Colgate University	$\frac{4}{2}$		2		128		1.5	
Cornell University Barnard College		$\frac{2}{4}$		0		120		0
Columbia University	2	2	4	6 4	124	124	3.2	3.2
		1		0				0
Vassar College University of Rochester	2	4 2 1 3 2 2 0	4	6 4	124	124	3.2	$^{0}_{3.2}$
Syracuse University Rensselaer Polytechnic Institute ³	2 1	2	4	4	124	124	3.2 0	3.2
Rensselaer Polytechnic Institute ³	1	0 3	6	6	126	126	45	4.5
Wake Forest College	3		18		128		0	1.0
Wake Forest College Case School of Applied Science 3 Western Reserve University	4	2	18 7 0 2 0 0	0			0	0
Oberlin College	$\frac{4}{2}$	$\frac{2}{2}$	2	2	124	124	0 1	1
	4		ō				0	
Antioch Congge Reed College	4 4 2	4	0 4	0	120		0 0 0	0
Lehigh University	4		53/4		140			
Bryn Mawr College		4		0	160	-	0 5	0
Haverford College	2 2 4 2 2 3 2		4				2.5 0 3.1 3.2	
Temple University University of Pennsylvania University of Pittsburgh Swarthmore College	2	2	4	4	128	128	3.1	3.1
University of Pennsylvania	4	2 4 2 4	4 4	4	134	134	3.2	3.2 0
	2	4	0	4 0	124	124	0	U
Washington and Jefferson College	3		0		100		0	0
Brown University Converse College	2	2 3 2 0	0	0	120	120 124	0	0 3. 2
Vanderbilt University Vanderbilt University University of the South Rice Institute	$\frac{2}{3}$	2	8	3 8	126	126	6.3	6.3
Vanderbilt University	3		0	0	128 136	128	0 3.2	0
Rice Institute	1	0	0.		190		0.4	
Baylor University Washington and Lee University Randolph-Macon Woman's College University of Richmond	2	1 .	4	0.	104	-	2.0	0
Randolph-Macon Woman's College	2	3	4.	0.	124		3.2	0
University of Richmond		4 .		0 .				Ó
Sweet Briar College Whitman College		2	6.	-4		124 -		3.2
Beloit College	$\frac{2}{2}$.	2	0	0			0	0
			1		1	l	1	

Requirements refer to the department of engineering.
 These requirements refer to Washington Square College.

Scope of required work.—The required courses in physical education usually include special corrective gymnastics (for those students needing this kind of work), light apparatus, calisthenic exercises, folk and gymnastic dances, indoor and outdoor games and sports, track activities, relays, and swimming.

Swimming.—One of the most interesting developments in colleges at present is the requirement of ability to pass certain tests in swimming. Nineteen public and twenty-nine private colleges and universities now require swimming for graduation. In the majority of these institutions the student must pass certain tests. Several institutions, however, do not withhold the degree if the student has taken the required instruction and practiced faithfully, but has not passed the tests. Dartmouth College requires all first-year students to pass the swimming test before they can engage in any other activity.

The following public institutions prescribe ability to swim as a requirement for graduation:

University of California, Berkeley; Connecticut Agricultural College, Storrs; Florida State College for Women, Tallahassee; Iowa State College of Agricultural and Mechanical Arts, Ames; University of Kansas, Lawrence; Kansas State Agricultural College, Manhattan; Michigan Agricultural College, East Lansing; University of Minnesota, Minneapolis; Montana State University, Missoula; College of the City of New York, New York; North Carolina State College of Agriculture and Engineering, Raleigh; University of Akron, Akron, Ohio; University of Cincinnati, Ohio; Ohio State University, Columbus; Oklahoma Agricultural and Mechanical College, Stillwater; Oregon State Agricultural College, Corvallis; University of Oregon, Eugene; Agricultural College of Utah, Logan; and University of Wisconsin, Madison.

The following private institutions prescribe ability to swim as a requirement for graduation:

Leland Stanford Junior University, Stanford University, Calif.; Wesleyan University, Middletown, Conn.; Yale University, New Haven, Conn.; Notre Dame University, Notre Dame, Ind.; Cornell College, Mount Vernon, Iowa; Amherst College, Amherst, Mass.; Harvard University, Cambridge, Mass.; Massachusetts Institute of Technology, Cambridge; Radcliffe College, Cambridge, Mass.; Williams College, Williamstown, Mass.; Carleton College, Northfield, Minn.; Washington University, St. Louis, Mo.; Dartmouth College, Hanover, N. H.; Rutgers College, New Brunswick, N. J.; Princeton University, Princeton, N. J.; Wells College, Aurora, N. Y.; Cornell University, Ithaca, N. Y.; Barnard College, New York, N. Y.; University of Rochester, Rochester, N. Y.; Syracuse University, Syracuse, N. Y.; Rensselaer Polytechnic Institute, Troy, N. Y.; Case School of Applied Science, Cleveland, Ohio; Lehigh University, Bethlehem, Pa.; Bryn Mawr College, Bryn Mawr, Pa.; University of Pennsylvania, Philadelphia, Pa.; University of Pittsburgh, Pittsburgh, Pa.; Swarthmore College, Swarthmore, Pa.; Brown University, Providence, R. I.; and Converse College, Spartanburg, S. C.

3. Military Training

Previous to 1916 few colleges or universities besides the land-grant colleges provided military training as a part of their educational curricula. These latter institutions, though frequently inadequately equipped, had provided a certain amount of military training for their students since the first Morrill law of July 2, 1862, which was supplemented by the act of 1883, the Morrill Act of 1890, and the Nelson amendment of 1907. General Order No. 70, 1913, of the War Department "prescribed the regulations governing the application of those laws for the last three years preceding the establishment of the Reserve Officers' Training Corps and is still applicable to schools that have not entered the Reserve Officers' Training Corps."¹

Throughout the period from 1862 to 1916, previous to the World War, even the land-grant institutions varied greatly in regard to their policies of providing instruction in military training. Some institutions attempted to fulfill the requirements of the law in detail, while others merely tolerated the work. Although the War Department had been authorized and directed by Congress to provide instructors and some equipment, few institutions were sufficiently equipped to put this work on a basis with other subjects in the curricula.

Establishment of the Reserve Officers' Training Corps.—In September, 1916, Congress passed the national defense act which reorganized the Army and among other things created a definite system of civilian military training in preparatory schools and colleges. This act and the amendment of 1920 in establishing the Reserve Officers' Training Corps provided an organization consisting of two main subdivisions, viz, "a senior division to be composed of units of the several arms corps or services established primarily in collegiate institutions and a junior division to be established in other public and private educational institutions."²

Previous to the establishing of the Reserve Officers' Training Corps the military training given in colleges lacked variety. Usually this work included merely a part of the work of the Infantry. The Reserve Officers' Training Corps, however, provides "for establishing units corresponding to all the arms, corps, or services of the Army."³ Its primary object is to provide systematic military training at civil educational institutions for the purpose of qualifying selected stu-

³ Ibid., p. 60.

¹ "Military training in land-grant colleges," by C. R. Mann and Col. F. J. Morrow. *In* Land-Grant College Education, 1910–1920, Pt. II, edited by Walton C. John. Department of Interior, Bureau of Education, Bulletin, 1924, No. 37, Chap.IX, p. 58.

² Ibid., p. 59.

dents of such institutions for appointment as reserve officers in the military forces of the United States. This division is an important agency in a plan for national defense.

The four-year Reserve Officers' Training Corps course of the senior division is divided into the basic course and the advanced course. The basic course covers a period of two years, after which the student may elect the advanced two-year course if recommended by the officer in charge of military instruction and the president of the institution.

Completion of either course shall, when entered upon by a student, be a prerequisite for graduation as regards such student unless in exceptional case he shall be discharged from the Reserve Officers' Training Corps by the professor of military science and tactics for sufficient reason with the approval of the head of the institution.⁴

Institutions that provide military training.—Of the 182 institutions included in this study 83 provide instruction in military training as a part of their curricula. Of this number 62 are public and 21 are private colleges and universities. Sixty-six institutions, including 58 public and 8 private, require as a minimum a two-year basic course in military training. Seventeen other institutions, including 4 public and 13 private, provide similar courses, either as elective work or as alternate or optional courses instead of the required physical education work.

Of the 83 institutions which provide courses in military training, 49 are land-grant colleges. All of these institutions provide this work on account of the Morrill law of 1862. All except the University of Wisconsin require it for two years of all male physically fit students. Military training was made an elective course in the University of Wisconsin in 1923 on account of the fact that a State law was passed at this time prohibiting compulsory military training in educational institutions in that State.

Special regulations of the War Department.—A few general regulations of the War Department are observed by all institutions in which units of the Reserve Officers' Training Corps are established. For example, the senior commissioned officer of the Regular Army on duty at an educational institution is designated as the professor of military science and tactics. He is accorded the same academic rank which the institution accords to the heads of the other departments.

A minimum of three hours a week of instruction and training is required to be given in the basic course and five hours a week is required for the advanced course, except in medical, dental, and veterinary units, in which only three hours are required.

Time required for military training.—A large number of the institutions included in this study require one hour of theory and two

⁴ Sec. 7, par. 46. Reserve Officers' Training Corps, Army Regulations No. 145-10, War Department. Dec. 15, 1924.

hours of practice each week in the basic course, making a total of three hours each week. A few institutions, however, require a total of four or five hours each week even in the basic course. (See Table 3, page 18, for requirements of each institution.)

Under special ruling of the War Department, a student engaged in atbletics may be excused from the physical training held under the department of military science and tactics during the season in which he is actually engaged in such athletics.

Academic credit allowed for military training.—Institutions differ in their policies in regard to the number of semester hours credit allowed for required and elective courses in military training. (See Table 3, p. 18.)

The number of semester hours credit allowed for the required work in military training varies from 2 to 12.

A few institutions allow military training to be taken as a major, minor, group, free, or alternate elective by students in their junior and senior courses.

Eleven institutions, including eight public and three private, allow military training to be taken as a major elective subject in a fouryear course leading to a bachelor's degree. Semester hours credit varying from 12 to 32 are allowed for the work.

Ten institutions, including nine public and one private, allow military training to count as a minor elective subject in a four-year course leading to a bachelor's degree. Semester hours credit allowed for this work by these institutions varies from 8 to 16²/₃.

Nine public and two private institutions allow military training to be taken as a group elective. The semester hours credit allowed for this work varies from 10 to 18 credits.

Sixteen public and six private institutions allow military training to be taken as a free elective. Semester hours credit allowed varies from 4 to 16.

Five public institutions and two private institutions allow military training to be taken as an alternate elective. Semester hours credit is allowed varying from 4 to 12.

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ABLE 3.—Required and elective work in military training
3Required and elective work in military training

	Total required	plus elective semester hours credit allowed on a degree	14	2313 122 18 18 18 18 18 17 17 17 21 43 17 17 21 43 17 21 43 17 15 17 15 17 15 17 15 17 15 15 15 15 15 15 15 15 15 15 15 15 15
		Alter- nate	13	4
		Free	12	13)55
	Elective	Group	11	12 13 18 18 18 18 10
		Minor	10	
		Major	6	20
2]		Per cent of total required in military training	œ	ふきまます。 いままであった。 いしいますでの。 ないので、 ないので ないので、 ないので て て でので でので、 でので で でので でので で
[L=Land-grant institution, indicated by an L in column 2]		Total semester hours credit required for a degree	2	144 125 126 160 160 140 144 144 144 128 128 128 128 128 128 128 128 128 128
i by an L	Required	Number of semes- ter hours required in mili- tary training	9	8446655555 8446655555 8666555555 8666555555 86665555555 86665555555 86655555555
indicated	R(Hours per week Theory	10	3 bours 3 bours 5 hours 5 hours 3 3 5 5 hours 3 3 5 3 5 1 hours 3 3 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3
titution,		Hours p Theory	+	1 (Total), (Total), (Total), 1-2
rant inst		Num- ber of years re- quired	3	
=Land-g		Land- grant insti- tutions	62	
1 [L		Institution ¹	1	Public Alabama Polytechnic Institute ¹ University of Alabama University of Arizonas Connaction Agricultural College ¹ Connection Agricultural College ¹ University of Ploinda ² Consergia State College of Agriculture and Mechanic Arts Georgia State College of Agriculture and Mechanic Arts University of Inalua University of Inalua University of Inalua Ouniversity of Inalua University of Inalua Inversity of Inalua Inversity of Rentucky Inversity of Rentucky Inversity of Rentucky Inversity of Rentucky Inversity of Marylaa University of Anaucultural College ³ University of Marylaa <

18 PHYSICAL EDUCATION IN AMERICAN COLLEGES

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Footnotes at end of table.

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[L=Land-grant institutions, indicated by an L in column 2]

				Re	Required					Elective			To
	Land- grant	-mnN		ocr week	Hours per week Number of semes-	Total	Per cent						pleec
TODITISTI	insti- tutions	ber of years re- quired		Prac- tice	ter hours required in mili- tary training	hours credit required for a degree	or total required in military training		Major Minor Group	Group	Free	Alter- nate	hours credit allowed on a degree
1	62	e	4	29	9	-	90	8	10	H	12	13	14
Private-Continued													
Johns Hopkins University &	Ţ	00	c		00			11	-				
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ll University	L	0	1	2	0	120	0						
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rsity of Pennsylvania ⁶		00			00		00					4	5
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1 Some of the agricultural and mechanical colleges included in this study do not have departments or colleges of liberal arts. In such instances statistics given refer to the department of agriculture or of engineering, and this fact is mentioned in a note. Otherwise statistics in this table refer to the department of liberal arts. Statistics group refer to the department of general science. Statistics group refer to the department of agriculture.

Military training is allowed as an elective, but information is lacking as to the number of semester hours credit allowed. Military training may be elected instead of physical education. Department of education allows 16 hours of elective work in military training.

 Military training is allowed as an elective. Information is incomplete as to the number of semester hours credit allowed for it.
 Military training is elective in the department of military selence.
 Military training is not required by the department of fiberal arcs but is required by the department of fiberal arcs but is required by the department of fiberal arcs but is required by the department of military selence. ¹⁰ Department of business administration only allows this elective.

Ξ

An optional medical unit of the Reserve Officers' Training Corps is maintained.

If For complete four-year course in military training, 615 majors are allowed for the basic and 9 majors for the advanced. In The total 20 elective semester hours credit includes 4 for the basic course and 16 for the advanced course.

" Military training is included as a part of the required courses in physical education. M Information is incomplete regarding the number of semester hours credit allowed for the major, minor, group, or free elective.

4. Hygiene

Scope of hygiene as a college subject.—Eighty-three institutions, including 36 public and 47 private, require personal hygiene. Thirtysix of these, including 23 public and 13 private, allow semester-hours credit for same varying from one-fourth to two semester-hours credit. (See Table 4).

The methods of instructing students in personal hygiene vary in different colleges and universities. In some institutions this instruction consists of a series of special lectures which all students attend. In other institutions this work is presented in connection with required physiology or biology.

In addition to the foregoing courses in personal hygiene, many institutions provide special lectures on venereal diseases. These lectures are sometimes presented by the students' health service and sometimes by the department of military training.

One hundred and one institutions, including 45 public and 56 private, give courses or special lectures on venereal diseases. Seventyseven of these, including 35 public and 42 private, make this work compulsory.

These facts show an awakened interest in personal hygiene in American colleges. The ideal of attainment has been clearly stated by Dr. Thomas A. Storey, of the College of the City of New York, as follows:

We hope and plan each year to send out a group of healthier, stronger, more rugged, and more efficient young men who, because of our influence, will be of greater academic, social, moral, economic, and political value as American citizens. We hope and plan to join the other departments of this great college in the development of character and the making of men.⁵

⁵ Department of hygiene of the College of the City of New York, by Dr. T. A. Storey, p. 51. (Copyrighted by the Narragansett Machine Co.)

TABLE 4.-Institutions requiring personal hygiene of all students

Institution	Semester- hours credit allowed	Institution	Semester- hours credit allowed
• Public		Private	
Alabama Polytechnic Institute		University of Southern California	2
University of Alabama University of Arizona	1	University of Southern California Connecticut College for Women Howard University	1
University of Arizona	$\begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}^{\frac{1}{2}}$	Agnes Scott College	
University of California	1 22	Knox College	
University of Colorado			
University of Florida	1	DePauw University Drake University	
University of Illinois	1/2	Grinnell College	
		Cornell College	
Purdue University	2/5	Baker University	
Purdue University Iowa State College of Agriculture and		Washhum Callera	
Mechanic Arts		Washburn College Bowdoin College	1
University of Kansas		Amherst College	-
University of Kentucky	2.6	Harvard University	
University of Maine	1	Radcliffe College	
University of Kallass University of Maine University of Maine University of Michigan University of Minnesota		Smith College	
o hiversity of Minnesota		Smith College Mount Holyoke College Tufts College Wellesley College	
Mississippi Agricultural and Mechanical		Tufts College	
College		Wellesley College Williams College	2
Montana State University	!	Williams College	
University of Nevada		Worcester Polytechnic Institute	
New Hampshire College of Agriculture and Mechanic Arts. College of the City of New York	1	Worcester Polytechnic Institute Dartmouth College Rutgers University	1
College of the City of New York	2	Rutgers University	
		Princeton University	
Hunter College of the City of New York.		Wells College	
North Carolina College for Women North Dakota Agricultural College		University of Buffelo	3 1
Ohio State University		Colgate University	1
Ohio State University Oklahoma College for Women	2	University of Buffalo Colgate University Cornell University Barnard College	
		Barnard College Columbia University	1
University of Oklahoma		Columbia University	2
University of Oregon Pennsylvania State College		Vassar College	1
Pennsylvania State College Rhode Island State College	21	University of Rochester	
Agricultural College of Utah	3	Rensselaer Polytechnic Institute	
The monster of Litch		Antioch College Reed College	
University of Utah Virginia Agricultural and Mechanical		iveeu Conege	
College and Polytechnic Institute	1/0	Lehigh University	
University of Virginia		Bryn Mawr College	
College of William and Mary		Temple University	1
University of Washington	* 2	University of Pennsylvania University of Pittsburgh	
University of Wyoming	1 11%	Chiveisity of Fittsburgh	
o management of any omingeneration	-72	Swarthmore College	
		Converse College	
		Vanderbilt University	
	1	Washington and Lee University University of Richmond	
		Sweet Briar College Beloit College	2
		Beloit College	
	1	1	1
¹ Men.	² Women	³ Women only.	

¹ Men.

² Women.

³ Women only.

5. Athletics

This section presents a discussion of the problem of control of intercollegiate athletics for men; the development of intercollegiate athletics for women; and the organization of intramural athletics for men and women.

Methods of control.—The methods of handling intercollegiate athletics are as follows: Control by the department of physical education; control by the department of physical education and a faculty advisory committee; control by a director of athletics; control by the president of the institution, the faculty, students, and alumni; control by the faculty; and control by the students.

Until recently the management of intercollegiate activities has been largely controlled by the students, alumni, and the athletic coach who was rarely considered a member of the faculty of the institution. However, with the recent growth of substantial departments of physical education by a large number of institutions, the management of intercollegiate activities has, in a few instances, been transferred to these departments. Oberlin College did this in 1916. Since then 11 other institutions have adopted this method of control. Thirty-three public and 37 private institutions favor the foregoing management of athletics, although they have not been able to establish it in their respective institutions.⁶ Forty-six institutions did not report their opinion regarding this method of control and only 10 public and 13 private institutions stated that they opposed it.

Six public and five private institutions favor control of intercollegiate athletics by the department of physical education and a faculty advisory committee. These institutions are: Mississippi Agricultural College; University of Mississippi; College of the City of New York; Hunter College of the City of New York; North Carolina State College of Agriculture; University of Texas; Leland Stanford Junior University; Cornell College, Mount Vernon, Iowa; Hamilton College, Clinton, N. Y.; Western Reserve University, Cleveland, Ohio; and Temple University, Philadelphia, Pa.

Four public institutions favor intercollegiate athletics under control of a director of athletics: University of Florida, University of Michigan, Oregon State Agricultural College, and the College of William and Mary.

• See Table 5 for list of institutions favoring and opposing this method of control for intercollegiate athletics.

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Two public institutions, the State University of New Mexico, and Rhode Island State College, favor control of intercollegiate athletics by the president and the faculty.

The State College of Washington, Pullman, favors control of intercollegiate athletics by the president, faculty, students, and alumni.

Baker University, Baldwin City, Kans.; and Baylor University, Waco, Tex., favor control of intercollegiate athletics by the faculty.

Amherst College at the present time is trying out modified student control. Pennsylvania State College favors a cooperative plan between the department of physical education and a department of athletics.

These facts indicate that regardless of what is actually done by American colleges and universities, there is a strong ideal among these institutions that intercollegiate athletics should be under the control of the department of physical education.

Intercollegiate athletics for women.—At Mount Holyoke College, between 1837 and 1862, domestic work supplemented by light calisthenic exercises, including quadrilles, furnished healthful exercise for the students. In 1862, this work was supplemented by the Dio Lewis system of gymnastics. Although as early as 1875 girls in this institution played tennis and enjoyed boating, such activities were carried on merely for pleasure, and competitive intercollegiate games were not even thought of.

With the recent emphasis on physical education activities in all educational institutions there arose a tendency for college girls to conduct intercollegiate games. Many heated discussions have taken place regarding this problem. Only 14 public and 17 private institutions permit intercollegiate contests for women. Baker University, Baldwin City, Kans., and Knox College, Galesburg, Ill., however, limit this activity to tennis. For a list of institutions in which intercollegiate sports for women are carried on see Table 5.

A large number of institutions, including many women's colleges, oppose intercollegiate activities for women on the ground that they are unnecessary, are too severe, are usually poorly managed, and require an amount of time far in excess of any real value. Considering the short time in which girls have had opportunities for taking part in any kind of athletic activities, the majority of directors of this work feel that the present need is for more suitable games for girls, for readjustments of boys' rules to suit the girls, and not for keener competition.

Intramural athletics for men and women.—Intramural athletics consist of organized competitive games which are carried on entirely within the student body of a single institution. The work is so organized that all students are encouraged to participate and are given opportunity to take part in the sports of their choice. The

 $\mathbf{24}$

relative importance of this system is evident from the fact that 68 institutions, including 33 public and 35 private, provide this system, and 93 institutions, including 44 public and 49 private, provide it for men. (See Table 5.)

In general the value of a system of intramural athletics lies in the fact that it affords opportunity for every student to enjoy the health and recreational and educational benefits to be derived from athletic games. Each student is encouraged to participate in activities suitable for his constitution as well as his disposition. The emphasis of the system is rightly put upon playing, and not upon winning the game.

Table 5 shows the per cent of students in various institutions who take part in intramural athletics.

TABLE 5.—Intercollegiate and intramural athletics for men and women

Institution	Do you favor control of inter- collegiate athletics for men by a depart- ment of physical education?	Does institu- tion have inter- collegiate athletics for women?	of stu repo taking intra	cent idents orted part in mural etics Women
1	2	3	4	5
Public Alabama Polytechnic Institute 1 Alabama Technical Institute University of Alabama University of Arizona	 No Yes	Yes		
University of Arkansas University of Colorado Colorado Agricultural College Connectient Agricultural College *University of Delaware	Yes	No No No Yes	41 50	
University of Florida		No		
University of Ildano University of Illinois. *Indiana University. Purdue University. Iowa State College of Agriculture and Mechanic Arts	Yes			
Iowa State College of Agriculture and Mechanic Arts State University of Iowa University of Kansas Kansas State Agricultural College 1 University of Kentucky Louisiana State University and Agricultural and Mechanical	Yes Yes Yes Yes ²	No	$ \begin{array}{r} 65 \\ 33 \\ 34 \\ 65 \end{array} $	49 48
University of Kentucky Louisiana State University and Agricultural and Mechanical College. University of Maine	Yes No Yes	Yes No Yes	41 	34 64
College. University of Maine University of Maryland Massachusetts Agricultural College University of Michigan Michigan Agricultural College	Yes Yes	No No	50	70
Michigan Agricultural College University of Minnesota Mississippi Agricultural and Mechanical College *Mississippi State College for Women				
University of Mississippi				
University of Mississippi University of Mississippi Montana State College of Agriculture and Mechanic Arts Montana State University	Yes Yes 2	No	89 100	75 90

* Indicates information incomplete.

¹ Depends on enrollment.

² The institution now uses this method of control.

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		Container	a la com	a se l'acteur
	Do you favor			
	lavor	Does	Per	cent idents
	control of inter-	institu- tion have		orted
	collegiate	tion have	taking	part in
Institution	athletics	inter-	intra	mural
	for men by	collegiate	ath	letics
the second se	for men by a depart-	athletics		
	ment of	for women?		
	physical	women i	1	L
	education?		Men	Women
ter	2	3	4	5
	~			
	1	2		
Public-Continued.				
The south of DT has also	37.			
University of Nebraska	Yes Yes ²	No		63
University of Nevada New Hampshire College of Agriculture and Mechanic Arts University of New Mexico New Mexico College of Agriculture and Mechanic Arts	Yes	No	55 58	03
University of New Maxico	No.	No Yes	00	
New Mexico College of Agriculture and Mechanic Arts	No	Yes		
*College of the City of New York				
*College of the City of New York Hunter College of the City of New York		Yes		
		No	62	
North Carolina College for Women		No		28
North Carolina State College of Agriculture and Engineering.	No	Vac		
 North Carolina State College of Women. North Carolina State College of Agriculture and Engineering North Dakota Agricultural College. University of North Dakota. University of Akron. Obic University 	IN 0	Yes No	26 51	54 19
University of A kron	No	No	01	19
Ohio University	No Yes	No	88	30
Ohio University University of Cincinnati Ohio State University	Yes	No Yes		
Ohio State University	Ves	No	77	21
Miami University	Yes	No	90	90
Oklahoma College for Women		No		34
Miami University	No Yes 2	No		55
Oklanoma Agricultural and Mechanical College	Yes ²	No	89	55
Uregon State Agricultural College		Yes No	66	78
Panneylyonia State College		No	100 100	100
Rhode Island State College		Yes	100	100
*Clemson Agricultural College				100
Oklahoma Agricultural and Mechanical College Oregon State Agricultural College University of Oregon Pennsylvania State College Rhode Island State College *Clemson Agricultural College University of South Carolina South Dakota State College of Agriculture and Mechanic Arts University of Tennessee University of Tennessee University of Tennessee	No	No		
South Dakota State College of Agriculture and Mechanic Arts	No	No No	21	
University of South Dakota		No	36	23
University of Tennessee		Yes	66	26
University of Tennessee. University of Texas. Agricultural and Mechanical College of Texas. College of Industrial Arts. Agricultural College of Utah. University of Utah. University of Vermont.	Yes	No	30 70	26
College of Industrial Arts	1 03	No	10	61
Agricultural College of Utah	Yes	No No	13	8
University of Utah	Yes	No		
University of Vermont	Yes		75	
Virginia Agricultural and Mechanical College and Poly-	Yes		66	
University of Virginia			13	
Virginia Agricultural and Mechanical College and Poly- technic Institute. University of Virginia College of William and Mary State College of Washington University of Washington West Virginia University University of Wisconsin University of Wyoming		Yes	59	50
State College of Washington			28	
University of Washington	Yes			
West Virginia University				
University of Wisconsin	Yes '		80 40	49 21
Oniversity of wyoming	1 03		-10	~1
Private				
Birmingham-Southern College University of Southern California	No	Yes	83	10
University of Southern California	Yes	No	44	33 77
Leland Stanford Junior University		No	74	57
University of Denver	No	No		57
Trinity College (Hartford, Conn.)	Ves	140	78	
Wesleyan University	No Yes Yes ²		98.5	
Y ale University	IN 0		74	
Connecticut College for Women	Yes	No Yes		66
Leland Stanford Junior University Colorado College Trinity College (Hartford, Conn.) Wesleyan University Y ale University Connecticut College for Women George Washington University Howard University Agnes Scott College	Yes	Yes	24	21 94
Howard University	Yes	No	56	94
Agnes Sont College	Yes Yes	No	10	5 11
Northwestern University	Yes	No	15	45
Knox College	100	No Yes	71	61
*Wabash College				
Earlham College	Yes	No	44	64
DePauw University	Yes	No	41	
Wabash College Earlham College DePauw University University of Notre Dame. Drake University Grinpal College.	Yes	No	32 6	
Grinnell College	1 00	No	90+	90+

* Indicates information incomplete. The institution now uses this method of control.

ATHLETICS

	Daran	1		
	Do you		Per	cent
	favor	Does	ofsti	idents
	control	institu-		
	of inter-	tion have	rep	orted
	collegiate		taking	part in
Institution	athletics	inter-		mural
	for men by	collegiate	ath	letics
	a depart-	athletics		
		for		
	ment of	women?		1
	physical		Men	Women
	education?		1VACH	" office
	-			
1	2	3	4	5
Private-Continued.		1		1
Cornell College Baker University		No	20	24
Baker University		Yes		
Washburn College	. Yes			
Bowdoin College	No		81	
Bota Callege	Yes	No	01	
Dates Conlege	- 103	140		
Washburr College Bowdoin College Bates College Colby College			61	
Goucher College Johns Hopkins University Amherst College Boston University		No		35
Johns Hopkins University	- Yes 2		50	
Amherst College			1 82	
Boston University	-	Yes.		
Simmons College		Yes	1	23
Simmons College Harvard University Massachusetts Institute of Technology		110	50	20
Marvaru University	77		50	
Massachusetts Institute of Technology	. Yes			
		Yes		
Raterine College. Mount Holyoke College. Tufts College. Wellesley College. Williame College.	. No		40	
Mount Holyoke College		No		62
Tufts Collago	Yes	No Yes	100	100
Walleder Callege		No.	100	21
Wellesley College. Williams College. Clark University. Worcester Polytechnic Institute Carleton College.		10	93.8	21
williams College	Yes			
Clark University	Yes 2.		54	
Worcester Polytechnic Institute	_ Yes	No	71	
Carleton College	Yes	No.		
Washington University (St Louis Mo)	. No	No		
Dartmouth Colloro	No			
Dutgers College	- Non			
Rutgers Conege	Yes			
Princeton University	- Yes		90	
Worcester Polytechnic Institute				
University of Buffalo	_ Yes	No		59
Hamilton College	-		85	
Colgate University			64	
Colgate University	No	Voc	01	
Darnard College		No		90
Balmalu Conege		N0		90
Columbia University				
Fordnam University	No	Yes	50	
Fordham University New York University Vassar College	Yes	Yes		
Vassar College		No		
	Yes	No	50	18
*Union University				
Union University	Yes	No	85	81
Dangsalaar Dalutashnia Instituta	Voc		00	01
Duba Unimentity	Yes			
Duke University	- No	37.		
Duke University	No	No	67	
Case School of Applied Science	Yes		67	
Western Reserve University		No	100	100
*Ohio Weslevan University				
Oberlin College	Yes 2	No	52	1
Antioch Collogo	Voc	No Yes	52 87	70
Deed College	. Yes	Ves	100	100
Reed College		Yes	100	100
Willamette University	Yes 2		38 77	16
Lehigh University	. Yes		77	
Bryn Mawr College		No		
Lafayette College	No			
Temple University		Yes		
University of Pennsylvanie	Vec	No.	92	14
Cornegia Institute of Technole	- Yes	10	20	
Carnegie institute of Technology		37	7	10
University of Pittsburgh		Yes		
Swarthmore College	Yes 2	N0	95	60
Washington and Jefferson College	Yes 2			
Lafayette College Temple University University of Pennsylvania Carnegie Institute of Technology University of Pittsburgh Swarthmore College Washington and Jefferson College Brown University Converse College	Yes 2	Yes		
Converse College		No		63
Enjyorgity of Chattanaara	No	No Yes	20	
Vandenbilt University	No	1 es	52	21
vanderout University		No	4/	
	Yes		76	
University of the South			61	
University of the South Washington and Lee University	Yes.			
University of the South Washington and Lee University Bandolph-Macon Woman's College	Yes			78
University of the South Washington and Lee University Randolph-Macon Woman's College University of Richmond	Yes	Ves		78
University of the South	Yes	Yes	55	78
Converse Conlege. University of Chattanooga. Vanderbilt University University of the South. Washington and Lee University Randolph-Macon Woman's College University of Richmond Sweet Briar College Beloit College	Yes*	Yes Yes	55 32	78

TABLE 5.—Intercollegiate and intramural athletics for men and women-Continued

* Indicates information incomplete.

² The institution now uses this method of control.

6. The Students Health Service

The students health service is an organization which has grown up very recently for cafeguarding the health of students. The majority of American colleges and universities provide such service. Some institutions require all students to visit this department at stated intervals; others, for example, the State University of Ohio, maintain it for advice only. Stanford University furnishes an excellent example of cooperation between the departments of physical education, health, and athletics. The medical adviser and the director of physical education have their offices in the gymnasium. All new students are given a thorough medical examination at entrance. All students taking part in athletics are given special examination of heart and lungs. All excuses from the regular class work in physical education must be handled through this department.⁷

At the present time 130 institutions, including 63 public and 67 private, provide at least one physician for examinations and consultation. One public institution arranges for the city board of health to do this; 121 institutions, including 65 public and 56 private, provide nurses to assist in this work; 115 institutions, including 60 public and 56 private, provide hospitals or infirmaries; 31 institutions, including 23 public and 18 private, provide this service free for the student; while 62 institutions, including 36 public and 26 private, charge a small fee, or let the student pay a small per cent of the costs, especially for hospital care. The fee charged for this service varies from \$1 each semester to \$10 a year.

In some institutions the students health service and the department of physical education are organized separately. In such cases correlation of work is advantageous. A very good explanation of the development of the students health service in colleges and universities has been given by Dr. John Sundwall. Doctor Sundwall feels that the growth of this department has come about as a result of the recent discoveries in nutrition work, preventive medicine, and the realization of the fact that physical education, often placed at a disadvantage on account of the unwieldy situation of intercollegiate athletics, could not possibly control the health situation alone. Doctor Sundwall states that neither the health staff nor the physical education staff could attend to this matter alone, but that they should both agree on the point of promoting the students' health. "On account of the great amount of work to be done in large institutions this work can go on functioning each in its special lines without much duplication, and with little, if any, friction, although this independent arrangement is by no means ideal." 8

⁷ Barrow, W. H. General participation in athletics in the student health program. Nation's Health, 6:528-29.

⁸ Interrelationship between physical education and students health service. By John Sundwall, M. D., health officer, University of Michigan. American Physical Education Review, April, 1921, page 6.

A report of the president of the University of Illinois for 1924 mentions the splendid growth of the "health service" department. This growth is attributed mainly to an increased interest in hygiene.

The following data, taken from this report, are given as examples of what was accomplished during 1923-24 at this institution: 27,300 visits were made by the students to the health service station; 3,143 physical examinations were made; 1,179 students were given a second examination; 1,985 recommendations were given for temporary excuses from classes; 3,760 calls for first aid and infection were given; 3,814 consultations for advice were given; 2,096 conferences on personal hygiene were held; 3,537 directions in regard to self-care were given; 276 petitions for excuse from military and physical training were considered; 345 vaccinations against smallpox were given; 400 typhoid vaccinations were made; 531 students were referred to specialists; 601 students were admitted to the hospital; 568 students were given attention on account of exposure to disease; and 4,843 follow-up visits were made to students who were ill.

Table 6 contains detailed information regarding the student health service in each institution.

		,			
Institution	Physician	Nurse	Hospital or in- firmary	Free service	Remarks
1	2	3.	- 4	õ	6
Public					
1 4044				1	11
Alabama Polytechnic Institute.	Yes	Yes	No	Yes	
Alabama Technical Institute			Yes		
University of Alabama			Yes		
University of Arizona			Yes		\$5 per semester.
University of Arkansas		Yes.	Yes	No.	to per semester.
University of California			Yes	110	Small fee each student.
University of Colorado	Yes		Yes	No	Rates reduced 25 per
o hive birg of colorado	100	100	100		cent to students.
Colorado Agricultural College	No	No	No		cont to students.
Connecticut Agricultural Col-	Yes	Yes	Yes	Partly	Student pays physi-
lege.	100	100	105	1 corory	cian.
University of Delaware	Yes	Yes	Yes	Yes	ciali.
University of Florida	Yes		Yes		\$5 yearly.
Florida State College for				140	Entrance infirmary fee.
Women.	103	103	100		Entrancemminary ice.
University of Georgia	Yes	Yes	Yes	No	\$5 yearly.
Georgia School of Technology.					ou yearry.
University of Idaho	No	Yes	Yes	No	\$2.50 each semester.
University of Illinois	Vos	Yes	Yes	Yes	Hospital care free four
O HIVEISILY OF HIMOIS	1 03	103	103	1 03	weeks a term.
Indiana University	Vac	Yes	Yes	Yes	Fee is a small percent-
Indiana Omversity	103	105	1 03	1 03	age of the cost.
Purdue University	Ves	Ves	Yes	No	Fee \$4 yearly; maxi-
I di di com voisity	100	100	100	110	mum hospital bene-
					fit, \$20 per year.
Iowa State College of A. and	Yes	Yes	Yes	No	\$2 quarterly.
M. Arts.	103	1 03	103	110	vz quarterry.
State University of Iowa	Vas	Yes	Yes	Yes.	
University of Kansas	Yes		Yes	Yes	\$6 fee at registration.
Kansas State Agricultural Col-	Yes	Yes.	Yes	No	\$3 per semester.
	169	1 05	105	110	oo per semester.
lege.					

TABLE 6.—Institutions providing health service

PHYSICAL EDUCATION IN AMERICAN COLLEGES

TABLE 6.—Institutions providing health service—Continued

Institution	Physician	Nurse	Hospital or in- firmary	Free service	Remarks	
1	2	3	4	5	6	
Public-Continued						
University of Kentucky	Yes	Yes	Yes		Hospital fee of \$1 each semester; dental clinic available.	
Louisiana State University and A. and M. College.			1.00		\$5 for session of 36 weeks, plus cost of prescriptions.	
University of Maine University of Maryland	Yes	Yes	Yes			
Massachusetts Agricultural College.	Yes No	Yes Yes	Yes Yes	No	Not adequate to pro- vide for all.	
University of Michigan	Yes	Yes	Yes	Yes	A per cent of the stu- dents' fees supports this work.	
Michigan Agricultural College.	Yes	Yes	Yes	Yes	Dispensary in the gym- nasium.	
University of Minnesota	Yes	Yes	Yes	Yes	\$2 a quarter; dental treatment given for	
Mississippi A. and M. College.	Yes	Yes	Yes	No	cost. \$8 a session for all stu- dents in college.	
University of Mississippi University of Missouri	Yes	Yes	Yes	No Yes	Fee, \$6.50.	
University of Missouri	Yes	Yes Yes	Yes	Yes	\$6 yearly.	
and M. Arts.				•••••		
Montana State College of A. and M. Arts. Montana State University University of Nebraska	No Yes	Yes Yes	Yes No	No Yes	\$2.50 quarterly. Hospital for athletic injuries only.	
University of Nevada	Yes	Yes	Yes	No	\$3 each semester	
New Hampshire College of A. and M. Arts.	Yes	Yes	Yes	No No	\$4.50 per year health fee and \$1 per day at infirmary.	
State University of New Mexico.	Yes	No		Yes	-	
New Mexico College of A. and M. Arts.	N0			N0	This institution does not pay physician fees but pays \$2.50 per day for nurse.	
College of the City of New York.	Yes, 7	No	No	Yes	Only emergency treat- ment given; two den- tists.	
Hunter College of the City of New York.	Yes			Yes		
University of North Carolina	Yes	Yes	Yes	Yes	Charge made for seri- ous operations.	
North Carolina College for Women.	Yes	Yes	Yes	Yes		
North Carolina State College of A, and Engineering	Yes	Yes			Fee, \$2.	
North Dakota Agricultural College.	Yes	Yes	Yes Yes	Yes	Special ward in hos- pital for women.	
					City board of health attends to this.	
Ohio University University of Cincinnati	Voz	Yes No	Yes	Partly	\$2.50 por der in her	
Ohio State University	Yes	Yes	No	Partly Yes	\$3.50 per day in hos- pital.	
Miami University Toledo University	Yes	1 es	Yes No	No.	Fee, \$5.	
Oklahoma College for Women_	No. Yes		N0	No. No. Yes		
University of Oklahoma. Oklahoma A. and M. Arts	No. Yes.	Y es	Yes No	No Yes	\$2.50 per semester.	
College. Oregon State Agricultural Col- lege.	Yes	Yes	Yes	No	Included in student fee, \$18.50; free hos- pital service 10 days.	
University of Oregon	Yes	Yes	Yes	Yes	\$2 a term.	
Pennsylvania State College.	Yes	1.65	Yes No	No. Yes	\$1 each semiester.	
University of Oregon Pennsylvania State College Rhode Island State College University of South Carolina South Dakota State College of A and M Arts	Yes Yes Limited	No. Yes. For women.	Yes No	165		
A. and M. Arts.	1	For dirla				
A. and M. Arts. University of South Dakota University of Tennessee	Yes.	For girls Yes	For girls Yes	Yes Yes	\$5 per year.	
University of Texas	169	1 es	1 es	1 es		
College of Texas	Yes	1 es	Yes	No	\$10 per session.	
Agricultural College of Utah University of Utah	Yes	Yes	No	Yes Yes	\$6 annually.	

THE STUDENTS HEALTH SERVICE

TABLE 6.—Institutions providing health service—Continued

		1			
Institution	Physician	Nurse	Hospital or in- firmary	Free service	Remarks
1	2	3	4	5	6
Public-Continued					
	For women.	Yes	Yes	No	Use hospitals affiliated
University of Vermont and State Agricultural College. Virginia A. and M. College	Yes			No	with medical college. \$4 each quarter.
and Polytechnic Institute.					
University of Virginia	Yes				Students boarding at houses not approved by medical inspector get no free medical attention.
State College of Washington	No	Yes			\$1 fee; student pays physician and board at hospital.
University of Washington	Yes	Yes	Yes	No	\$1 all students, \$1.50
West Virginia University	Yes	Ye3	Yes	No	infirmary fee. \$2.50 each semester; medical attention in-
					cludes minor surgery from medical school.
University of Wisconsin	Yes	Yes	Yes	Yes	\$3.50 each semester.
University of Wyoming	No	No	No		
Private					
Birmingham-Southern College-	Yes	Yes	Yes	Yes	
University of Southern Cali- fornia.					
Leland Stanford Junior Uni- versity.	Yes	No	No		
Colorado College	No No	No	No		
Colorado College University of Denver Trinity College (Hartford,	Yes	No	No		
Conn.). Wesleyan College	Yes	Yes	Yes	No	Hospital at rate of
			-	•	\$2 per day, other service free.
Yale University	Yes			Partly	\$5 per day. Service free for self-support- ing students only.
Connecticut College for Women			Yes	No	Fee of \$10 charged all students, except day students.
George Washington Univer- sity.	Yes		Yes	No	\$4 per year.
Howard University Trinity College (Washington, D. C.). Agnes Scott College	Yes	Yes	Yes Yes	Yes	
Agnes Scott College	Yes	Yes	Ye3	Yes	
Emory University University of Chicago			Yes	No Yes	Nominal expense.
Northwestern University	Voc	Yes	Yes		Physician only for
Knox College					diagnosis by health department.
Wabash College	Yes				Physician gives diag- nosis only.
Earlham College	Yes	Yes	Yes	Usually_	Free service except for protracted illness.
De Pauw University	Yes	Yes	Yes	No	Pay for physician serv- ices required.
University of Notre Dame Drake University Cornell College	No No	No Yes	No Yes	No 3 days	Moderate charge after
Baker University	No	No	No		3 days.
Washburn College Tulane University of Louisiana	Yes	No Yes	Yes	No	\$5 a term.
Bates College Colby College	Yes	Yes	Yes	No	\$5 a year.
Goucher College	Yes	Yes	Yes	Partly	Student pays for spe- cial nursing.
Johns Hopkins University Amherst College	Yes Yes	Yes Yes	Yes Yes	Partly Yes	Free physician for 1 visit; hospital charge
Boston University	No	No	No		for bed and board.
Simmons College	No Yes	No Yes	No Yes		All atu dan ta aray Ar
Harvard University			1 es	No	All students pay \$7 annually.
Massachusetts Institute of Technology.	Yes	Yes			

Institution	Physician	Nurse	Hospital or in- firmary	Free service	Remarks	
1	2	3	4	5	6	
Private-Continued						
Radcliffe College	No	Yes	No		Nurse for dormitory students only.	
Boston College Smith College	No Yes	No	No Yes	No	\$10 infirmary fee for 12	
		V.a			weeks.	
Mount Holyoke College Tufts College	Yes Yes	Yes No	Yes Yes	No Usually	\$10 annually. Charge for prolonged illness.	
Wellesley College Williams College	Yes	Yes	Yes	1 week	\$2.25 per day.	
Clark University	Yes Advice	Yes No	Yes No	No Yes		
Worcester Polyclinic Institute.	No	No	No No		First aid department in gymnasium free to	
Carleton College	Yes	Yes	Yes	No	all. \$2.50 per day.	
Washington University (St. Louis, Mo.)	Yes	Yes	Yes	No	\$2 health fee, \$6 op- tional hospital fee.	
Dartmouth College	Yes	Yes	Yes	Yes	Free to students un- able to pay.	
Rutgers College Princeton University	Yes	No. Yes	No Yes	Yes		
Wells College	Yes No	Yes	Yes	No Partly	\$10 annually. Consultation free, in-	
					firmory \$1 50 por doy	
University of Buffalo	Yes		Yes	Yes	afford to pay bill	
Hamilton College	Yes	Yes	Yes	No	If student can not afford to pay bill Regular charge for nurse and physician.	
Colgate University	Yes	Yes	Yes	Yes	\$5 a term.	
Cornell University Barnard College	Yes Yes	Yes Yes	Yes Yes	No	so a term.	
Columbia University Fordham University	res			Wea		
New York University	Yes Yes	Yes Yes	Yes Yes	Yes No	Free to students who	
					are needy. General fee, \$10.	
Vassar College University of Rochester	Yes Yes	Yes No	Yes No	No Yes		
Union University					Not mentioned in cat- alogue.	
Syracuse University	Yes	Yes	Yes	No	\$8 yearly.	
Duke University	Yes	Yes	Yes		Fee included in ma- triculation fee.	
Case School of Applied Science - Western Reserve University	No. Yes	No	No	Yes	One hospital bed avail-	
		No	No		able.	
Oberlin College	No Yes	Yes	Yes	No	\$2 per day. \$10 per year.	
Antioch College Reed College	103	Yes Yes	Yes No	No No	\$3 per year.	
Reed College Willamette University	INO	No	No			
Bryn Mawr College	Yes Yes	Yes Yes	No Yes	No	\$10 per year.	
Lafayette College	Yes	Yes		Yes		
navenoro Conege	Yes	Yes	Yes	res	Small fee for infirmary.	
Temple University	Yes	res	Yes	Yes Not al-	According to the cir-	
University of Pennsylvania	Yes	Yes	Yes	ways.	According to the cir- cumstances of the student.	
Carnegie Institute of Tech-	Yes			Yes		
nology. Swarthmore College Washington and Jefferson College	Yes No	Yes No	Yes No	Yes		
College. Brown University	Yes	Yes	Yes		Consultation free, serv-	
					ice charged.	
Converse College	Yes	Yes No	Yes No	Yet	Nominal entrance fee.	
University of Chattanooga Vanderbilt University	No	No	No			
University of the South	No Yes	Yes	res	No	\$1.50 per day.	
Rice Institute	NO.	No Yes 1	No Yes 1	Yes		
Baylor University	No	Yes 1	Yes 1	Yes		
Baylor University Randolph-Macon College Washington and Lee Uni-	No Yes	No Yes	Yes	10 days.	\$5 per year.	
versity. University of Richmond	Yes	Yes			\$5 medical fee per	
Sweet Briar College	Yes	Yes		No	student. \$10 fee.	
Whitman College					Infirmary fee; student pays physician.	
Beloit College	No					

¹ For girls.

7. Equipment for Physical Activities

Gymnasiums.—The total number of gymnasiums provided by 167 institutions is 222. Of these, 108 are provided by 74 public and 114 by 93 private institutions. Comparing these figures with those given by Dr. Willard S. Small, in an article in the American Physical Education Review, May, 1919, it is evident that there has been a steady increase in the number of college gymnasiums. Doctor Small sent questionnaires to 250 institutions; 143 replied and of this number only 110 had gymnasiums.⁹

Open-air gymnasiums.—Among the gymnasiums used at present several deserve a passing remark. The University of Missouri has a plat, approximately 200 by 150 feet, which is used for general recreation and gymnasium work. No apparatus is used on this plat, but it is reserved for general class work and competitive games. The University of Oregon built an outdoor gymnasium in 1920, but on account of so much bad weather and storms decided to board up the structure this year in order that it might be used during the long season of bad weather. The North Carolina College for Women has an outdoor gymnasium which has proved more satisfactory than was expected. In this climate the temperature is seldom too cold for outdoor sports, and in the rainy season when the ground is not fit for sports this structure furnishes ample facilities for physical education activities.

Athletic fields.—The total number of athletic fields provided by 161 institutions is 232. Of this number, 105 are provided by 70 public institutions and 127 are provided by 91 private institutions. One other institution uses municipal fields for this work. This plan might be used by other institutions where these facilities are available.

Tennis courts.—Approximately 972 tennis courts are provided by 148 institutions. Of this number, 293 are provided by 64 public institutions, and 679 by 84 private institutions. Many institutions failed to specify in their reports the number of tennis courts available and many reported that they were planning additional equipment as soon as possible.

Track.—The total number of tracks provided by 146 institutions is 175. Of this number, 77 are provided by 66 public institutions, and 98 are provided by 80 private institutions. A large number of these are outdoor tracks.

Swimming pools.—The total number of swimming pools provided by 106 institutions is 114. Of this number, 50 are provided by 47

⁹ Small, W. S. Physical education in the preparation of teachers. Amer. Phys. Ed. Rev., 24:435-37, Nov., 1919.

public institutions, and 64 are provided by 59 private institutions. Two other private institutions rent outside pools for their students.

Open-air swimming pools.—Several institutions, including the University of New Hampshire, Earlham College, and Stanford University, have outdoor swimming pools.

Stadia.—The tendency to build immense stadia is recent in American institutions. Previous to the war only a few of the larger institutions had this equipment. During the past five years many institutions have spent large sums of money for building stadia which are used for promoting intramural as well as intercollegiate athletics.

Forty-six public institutions have stadia or grand stands which have seating capacities ranging from 2,000 to 80,000. Three other public institutions are constructing stadia. Forty private institutions have stadia or grand stands, the seating capacity of which ranges from 600 to 60,000. One private institution is building a stadium and another is considering doing this.

Golf.—Eighteen public and 18 private institutions provide either whole or partial golf links as a part of their equipment. Three other public and 13 other private institutions arrange for the use of available public or private golf courses by their students.

Boating.—Forty-seven institutions, including 17 public and 30 private, have facilities for canoeing or rowing. Of this group, 2 public and 7 private institutions are women's colleges.

Bowling alleys.—A total number of 33 bowling alleys are provided by 18 institutions. Of this number, 10 are provided by 4 public and 23 by 14 private institutions.

Facilities for canoo- ing and rowing	10	Y es. Y es. Y es	Yes. Yes. Yes. Yes.
Capacity F	6	5,000 80,000 80,000 26,000 23,000 23,000 23,000 23,000 23,000 23,000 25,000	
Tennis courts available	æ	7 Ces. 2 5 5 7 Ces. 9 9 9 7 Ces. 3 3 7 Ces. 7 Ces. 7 Ces. 7 7 Ces. 7 7 Ces. 15 15 15 15 15 15 15 15 15 15 15 15 15	$\begin{array}{c} \operatorname{Yes.}_{\mathrm{Yes.}}\\ \operatorname{Yes.}_{5}\\ \operatorname{Yes.}_{2}\\ \operatorname{Yes.}_{20}\\ \operatorname{Yes.}_{20} \end{array}$
Golf course	P	1 "Availablo" " 1 1 1 Xos	"Available"
Number of tracks	9		
Number of ath- letic fields	ъ		H-0
Number of swim- ming pools	4		
Size of gynnasiums, in feet	s	20 by 60. 24,500 square feet 24,500 square feet 200 by 90. 100 by 30. 20 by 56. 20 by 56. 20 by 66. 20 by 64. 120 by 64. 120 by 102. 80 by 102. 80 by 102.	297 by 83 100 by 183 00 by 183 90 by 00 246 by 90 246 by 90 70 by 132
Number of gym- nasiums	8	0 4	
Institution	1	Public Alabama Polytechnic Institute Alabama Technical Institute University of Anbama University of Colorado 1. Colorado Agredutural College Connecticut Arredutural College University of Delagame University of Delagence University of College for Women University of Idaho Indiana State University Purdue University Indue University Iota State College of Agriculture and Mechanic Idaho Iota State College of Agriculture and Mechanic Iota State College of Agriculture and Mechanic	University of kansus- university of kansus- University of kentucky- Lontisiana State University and A. and M. Collego. University of Maine- University of Maine- University of Maingan- University of Mielingan Michigan Agricultural College University of Mielingan University of Minnesota. University of Minnesota.

TABLE 7.- Equipment in public and private institutions

Facilities for canoe- ing and rowing	10	Y es.	169.
Capacity of stadium	6	5,000 5,000 5,000 5,000 40,000 4,000 6,000 15,000 11,500 8,000 12,500 12,500	4,000
Tennis courts available	œ	6 6 25 25 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15
Golf course			
Number of tracks	9		
Number of ath- letic fields	5		6
Number of swim- ming pools	4		
Size of gymnasiums, in feet	e	60 by 120 60 by 120 774 by 140 754 by 140 755 by 90 150 by 35 150 by 36 96 by 46 96 by 46 96 by 90 120 by 80 120 by 90 120 by 90 121 by 160 121 by 160 100 by	75 by 110 50 by 70
Number of gym- nasiums	2		101
Institution	1	Public-Continued Mississippi Agricultural and Mechanical College-University of Mississippi State College for Women. University of Mississippi University of Mississippi Montana State College of Agriculture and Mechanic Arts. Montana State College of Agriculture and Mechanic Arts. Montana State University. Montana State College of Agriculture and Mechanic Arts. Montana State University of Nevala. University of Nevala. Vew Hampshire College of Agriculture and Mechanic New Hampshire College of Agriculture and Mechanic Arts. State University of New Mexico. New Hampshire College of Agriculture and Mechanic Arts. College of the City of New York. University of North Carolina. North Carolina State College of Agriculture and Mechanic College of the City of New York. University of North Dakota. North Darolina State College of Agriculture and Mechanic College of the City of New York. University of North Dakota. North Darolina State College of Agriculture and Mechanic College of the City of New York. University of North Dakota. North Darolina State College of Agriculture and North Davesity of North Dakota. University of North Dakota. University of North Dakota. University of North Dakota.	Mlami University Toledo University Oklahoma College for Women

TABLE 7.-Equipment in public and private institutions-Continued

	Ξ.				
Yes.	Yes.11	Yes.	Yes.	Yes.	
10,000 8,000 21,000 12,500 24,000 6,000	¹⁰ Yes. 8, 500 70, 000 20, 000 5, 000	4, 500 (1 ²) 8, 000	40,000	53,000 2,000 4,000 8,200 60,000	
Yes. 6 8 13 13 Yes. Yes.	7 Yes. Yes. 5	4 Yes. Yes.	Yes. 10 Yes.	Yes. Yes. 3 5 18	Yes. No. 13 40 6 Kcs.
"Partial"	Yes	"Available" Yes	Yes.	Yes	5-hole course Course of 740 acres
	1 1			411 100	
	0 0		8 4 45		(¹⁶) 1 2 6 6 1 1
2		· · · · · ·	5	0	(14) 1 1 1
(117 by 50 (70 by 90 (70 by 90 (160 by 100 (40 by 110 (40 by 87 (120 by 87 (120 by 87 (120 by 87 (120 by 120 (120 by 120 (120 by 92) (120 by 92) (120 by 92)	(65 by 90 (90 by 130 120 by 140 120 by 140 (60 by 103		(100 by 60. (100 by 100- (110 by 60. (50 by 60. (45 by 30. (45 by 36. (45 by 36.		90 by 120 50 by 75 50 by 45
• • • • • • • • • • • • • • • • • • •	01 H H H H C	5 7 7 7	2 4 1	52 T T 12	HHHHHH
University of Oklahoma Oregon State Agricultural and Mechanical College Oregon State Agricultural College University of Oregon Pennsylvania State College Rhodel Stand State College Clemson Agricultural College	Mechanicarts. Mechanicarts. University of South Dakota University of Tennessee. University of Texas. College of Industrial Arts. Agricultural and Mechanical College of Texas.	University of Utah. University of Vermont and State Agricultural College. Virginia Agricultural and Mechanical College and Polytechnic Institute. University of Virginia	College of William and Mary	University of Wisconsin University of Wyoning Private Birmingham-Southern College. University of Southern College.	Colorado College

Facilities for canoe- ing and rowing	10	Y es. Y es. Y es. Y es. Y es. Y es.
Capacity of stadium	8	3 3
Tennis courts available	œ	Y CGS Y CGS
Golf course	50	Use public links 9-hole course. Use public links Ves city chubs. Yes Use public links Use public links Vse public links Vse public links Vse public links Vse public links Vse public links
Number of tracks	9	
Number of ath- letic fields	10	
Number of swim- ming pools	4	
Size of gymnasiums, in feet	n	35 by 60 35 by 60 90 by 70 100 by 40 110 by 40 120 by 40 122 by 100 60 by 90 122 by 100 60 by 90 123 by 100 60 by 90 300 by 150 300 by 150 300 by 25 60 by 25 91 by 44 160 by 25 160 by 26 160
Number of gym- nasiums	8	
Institution	1	Prinate-Continued Georgetown University Finity College Emory University Emory University Trinity College Emory University Emory University Agrees Scott College Emory University Emory University Nontwesten University Nontwesten University Nontwesten University Nontwesten University Eartham College Bartham College Bartham College Dinversity of Notro Dame Dinversity of Notro Dame Dinversity Barden University Dinversity Dinversity Dinversity Dinversity Dinversity Dinversity Dinversity Din

TABLE 7.--Equipment in public and private institutions--Continued

	Yes. No. Yes. Use city facilities (river). Yes.
	eity f iver).
Yes. Yes. Yes. Yes. Yes. Yes. Yes. Yes.	
3,000 3,000 5,000 5,000 21,000	20, 000 6, 400 10, 000 10, 000 50, 000 60, 000
× ت محمو 4 0 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10 7 (es. 7 (es. 7 (es. 6 6 6 6 6 6 7 (es. 20 20 20 20
1 Yes 1 Yes	1 Use public links 2
1 000 by 66 128 by 70 128 by 70 (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)	(100 by 210- (a) by 70- (a) by 70- (127 by 92- (b) by 90- (b) by 95- (b) by 95-
	0 8 0 0 0
Clark University.	Union University

EQUIPMENT FOR PHYSICAL ACTIVITIES 39

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TABLE 7.

Facilities for canoe- Ing and rowing	10	Y es. No.	Yes. Yes, lake.	simus, 14,638
Tennis Capacity courts of vallable stadium	5	$\begin{array}{c} 1, 500\\ 16, 000\\ 2, 500\\ 22, 000\\ \end{array}$	3,000 Yes.	en's gyinns
Tennis Capacity courts of avallable stadium	æ	Yes. 55 33 3	Yes. Yes.	the 4 wom
Golf course	2	"Available". Yes	Yes. Course available.	¹¹ A hourseboat for camping parties of women also provided. In Building one. In Floor space of men's gymnasium, 55,070 square feet; of the 4 women's gymnasiums, 14,688 than 6 feet.
Number of tracks	9			parties of v nnasium, 5
Nnmber of swim- ming letic pools fields	10			r camping men's gyı
Number of swim- ming pools	4			¹¹ A houseboat foi ¹² Building one. ¹³ Floor space of juare feet.
Size of gymnasiums, in feet	3	60 by 100 100 by 35 107 by 51 100 by 60	(5) by 130 100 by 30 58 by 57 114 by 62 105 by 51	sc
Number of gym- nasiums	8			rsity near] in.
Institution		Private-Continued Washington and Jefferson College . Brown University . Danverse College . University of Chartanooga . Maryville College . Maryville College . Vanderbitt University . University of the South .	Baylor University Randoppi-Macon College Washington and Lee University University of Richmond Sweet Bran College Withman College Beloit College	 A recreation camp is maintained by university near Boulder. A matural amphibileater furnisiles a stadium. A stadium now being constructed. Stadium with hold 20 000 when completed.

Stadium will hold 20,000 whom completed. 6 Grandstand is provided. 6 Ocliege maintains a recendion camp. 7 Two of these are outdoor gymmasiums. 8 The physperunds cover 100 acres. 9 Three mills of a shallum laye been recedd. 9 Three mills of a shallum laye been recedd.

14 The institution rents a swimming pool for women. Use ty athletic field. Portable seats. T Use high-school swimming pool. B One and one-half acres. W Projected.

8. Summary

Section 1 brings out the fact that a large number of colleges and universities require a medical examination of all students at entrance. This examination is valuable not only in promoting student health, but it is a means of eliminating from entrance to college students who are physically unfit, as well as enabling the director of physical education to classify all first-year students into suitable physical education classes.

While a large number of high schools allow a certain amount of physical education to help fulfill the graduation requirements, only two institutions of higher education allow these credits to be included among the entrance requirements.

Section 2 emphasizes the fact that physical education is now included as a part of the required work of practically every undergraduate course leading to a bachelor's degree. This indicates that physical education is no longer considered something apart from general education, but is directly connected with it as a basic part.

Section 3 contains a brief account of the organization of the senior division of the Reserve Officers' Training Corps in colleges and universities. The detailed study of military training given in the 62 public and 21 private institutions included in this study may be considered representative of the situation as a whole in the United States. Inasmuch as a splendid feeling of cooperation exists between the educational institutions providing military training and the War Department, this policy is probably the best possible means of continually supplying an increasing number of trained men who would be available in case of war.

Section 4 points out the fact that hygiene is now considered an important college course by a large number of institutions. However, institutions have not as yet adopted any standard policy for giving this work. Sometimes it is given by the department of military training, sometimes by the department of physical education, and sometimes in connection with the required biology, physiology, or science courses where it is considered as a part of these courses.

Section 5 points out the recent growth of intramural athletics. It shows that there is a strong tendency among institutions to abolish the old method of joint control by faculty, president, and alumni, and to have intercollegiate athletics managed by the department of physical education. It emphasizes the importance of having all athletic games under careful supervision. Section 6 presents an account of the students health service. The large number of these organizations proves that good health is considered by the colleges and universities an asset which every student should have, not only for his college life but especially at graduation. The growth of this organization came about as the result of a realization that physical education alone could never entirely safeguard the students' health. There was a need for continuous medical supervision working on a cooperative plan with the physical education department. The students' health service was organized to do this.

Section 7 contains a summary of the equipment for physical activities provided by colleges and universities. It brings out the fact that equipment for swimming is considered very important, and that equipment for tennis can hardly be provided to fill the present demand. It shows a growing tendency to provide either complete or partial golf courses.

In general, it may be stated that the majority of colleges and universities in the United States are providing well-organized, healthful, educational, and recreational physical activities for their students. The programs of activities vary somewhat in different localities on account of the different climatic conditions. Institutions in the Northern States take advantage of opportunities for outdoor winter sports, and those in the Southern States are inclined to carry on outdoor programs during the entire season. The large amount of outdoor equipment provided by all the institutions indicates that the tendency of all institutions is to stress outdoor activities as far as possible.

Institutions Included in This Investigation

Public

Alabama Polytechnic Institute, Auburn, Ala. Alabama Technical Institute, Montevallo, Ala. University of Alabama, University, Ala. University of Arizona, Tucson, Ariz. University of Arkansas, Fayetteville, Ark. University of California, Berkeley, Calif. University of Colorado, Boulder, Colo. Colorado Agricultural College, Fort Collins, Colo. Connecticut Agricultural College, Storrs, Conn. University of Delaware, Newark, Del. University of Florida, Gainesville, Fla. Florida State College for Women, Tallahassee, Fla. University of Georgia, Athens, Ga. Georgia School of Technology, Atlanta, Ga. University of Idaho, Moscow, Idaho. University of Illinois, Urbana, Ill. Indiana University, Bloomington, Ind. Purdue University, Lafayette, Ind. Iowa State College of Agriculture and Mechanic Arts, Ames, Iowa. State University of Iowa, Iowa City, Iowa. University of Kansas, Lawrence, Kans. Kansas State Agricultural College, Manhattan, Kans. University of Kentucky, Lexington, Ky. Louisiana State University and Agricultural and Mechanical College, Baton Rouge, La. University of Maine, Orono, Me. University of Maryland, College Park, Md. Massachusetts Agricultural College, Amherst, Mass. University of Michigan, Ann Arbor, Mich. Michigan Agricultural College, East Lansing, Mich. University of Minnesota, Minneapolis, Minn. Mississippi Agricultural and Mechanical College, Agricultural College, Miss. Mississippi State College for Women, Columbus, Miss. University of Mississippi, University, Miss. University of Missouri, Columbia, Mo. Montana State College of Agriculture and Mechanic Arts, Bozeman, Mont. Montana State University, Missoula, Mont. University of Nebraska, Lincoln, Nebr. University of Nevada, Reno, Nev. New Hampshire College of Agriculture and Mechanic Arts, Durham, N. H. University of New Mexico, Albuquerque, N. Mex. New Mexico College of Agriculture and Mechanic Arts, State College, N. Mex. College of the City of New York, New York, N. Y. Hunter College of the City of New York, New York, N. Y. University of North Carolina, Chapel Hill, N. C. North Carolina College for Women, Greensboro, N. C. North Carolina State College of Agriculture and Engineering, Raleigh, N. C.

North Dakota Agricultural College, Agricultural College, N. Dak.

- University of North Dakota, University, N. Dak.
- University of Akron, Akron, Ohio.
- Ohio University, Athens, Ohio.
- University of Cincinnati, Cincinnati, Ohio.
- Ohio State University, Columbus, Ohio.
- Miami University, Oxford, Ohio.
- Toledo University, Toledo, Ohio.
- Oklahoma College for Women, Chickasha, Okla.
- University of Oklahoma, Norman, Okla.
- Oklahoma Agricultural and Mechanical College, Stillwater, Okla.
- Oregon State Agricultural College, Corvallis, Oreg.
- University of Oregon, Eugene, Oreg.
- Pennsylvania State College, State College, Pa.
- Rhode Island State College, Kingston, R. I.
- Clemson Agricultural College, Clemson College, S. C.
- University of South Carolina, Columbia, S. C.
- South Dakota State College of Agriculture and Mechanic Arts, Brookings, S. Dak.
- University of South Dakota, Vermilion, S. Dak.
- University of Tennessee, Knoxville, Tenn.
- University of Texas, Austin, Tex.
- Agricultural and Mechanical College of Texas, College Station, Tex.
- College of Industrial Arts, Denton, Tex.
- Agricultural College of Utah, Logan, Utah.
- University of Utah, Salt Lake City, Utah.
- University of Vermont, Burlington, Vt.
- Virginia Agricultural and Mechanical College and Polytechnic Institute, Blacksburg, Va.
- University of Virginia, Charlottesville, Va.
- College of William and Mary, Williamsburg, Va.
- State College of Washington, Pullman, Wash.
- University of Washington, Seattle, Wash.
- West Virginia University, Morgantown, W. Va.
- University of Wisconsin, Madison, Wis.
- University of Wyoming, Laramie, Wyo.

Private

- Birmingham-Southern College, Birmingham, Ala.
- University of Southern California, Los Angeles, Calif.
- Leland Stanford Junior University, Stanford University, Calif.
- Colorado College, Colorado Springs, Colo.
- University of Denver, Denver, Colo.
- Trinity College, Hartford, Conn.
- Wesleyan University, Middletown, Conn.
- Yale University, New Haven, Conn.
- Connecticut College for Women, New London, Conn.

Catholic University of America, Washington, D. C.

- Georgetown University, Washington, D. C.
- George Washington University, Washington, D. C.
- Howard University, Washington, D. C.
- Trinity College, Washington, D. C.
- Agnes Scott College, Decatur, Ga.
- Emory University, Emory University, Ga.
- University of Chicago, Chicago, Ill.

Northwestern University, Evanston, Ill. Knox College, Galesburg, Ill. Wabash College, Crawfordsville, Ind. Earlham College, Earlham, Ind. De Pauw University, Greencastle, Ind. University of Notre Dame, Notre Dame, Ind. Drake University, Des Moines, Iowa. Grinnell College, Grinnell, Iowa. Cornell College, Mount Vernon, Iowa. Baker University, Baldwin City, Kans. Washburn College, Topeka, Kans. Tulane University of Louisiana, New Orleans, La. Bowdoin College, Brunswick, Me. Bates College, Lewiston, Me. Colby College, Waterville, Me. Goucher College, Baltimore, Md. Johns Hopkins University, Baltimore, Md. Amherst College, Amherst, Mass. Boston University, Boston, Mass. Simmons College, Boston, Mass. Harvard University, Cambridge, Mass. Massachusetts Institute of Technology, Cambridge, Mass. Radcliffe College, Cambridge, Mass. Boston College, Chestnut Hill, Mass. Smith College, Northampton, Mass. Mount Holyoke College, South Hadley, Mass. Tufts College, Tufts College, Mass. Wellesley College, Wellesley, Mass. Williams College, Williamstown, Mass. Clark University, Worcester, Mass. Worcester Polytechnic Institute, Worcester, Mass. Carleton College, Northfield, Minn. Washington University, St. Louis, Mo. Dartmouth College, Hanover, N. H. Rutgers College, New Brunswick, N. J. Princeton University, Princeton, N. J. Wells College, Aurora, N. Y. University of Buffalo, Buffalo, N. Y. Hamilton College, Clinton, N. Y. Colgate University, Hamilton, N. Y. Cornell University, Ithaca, N. Y. Barnard College, New York, N. Y. Columbia University, New York, N. Y. Fordham University, New York, N. Y. New York University, New York, N. Y. Vassar College, Poughkeepsie, N. Y. University of Rochester, Rochester, N. Y. Union University, Schenectady, N. Y. Syracuse University, Syracuse, N. Y. Rensselaer Polytechnic Institute, Troy, N. Y. Duke University (formerly Trinity College), Durham, N. C. Wake Forest College, Wake Forest, N. C. Case School of Applied Science, Cleveland, Ohio. Western Reserve University, Cleveland, Ohio.

Ohio Wesleyan University, Delaware, Ohio. Oberlin College, Oberlin, Ohio. Antioch College, Yellow Springs, Ohio. Reed College, Portland, Oreg. Willamette University, Salem, Oreg. Lehigh University, Bethlehem, Pa. Bryn Mawr College, Bryn Mawr, Pa. Lafayette College, Easton, Pa. Haverford College, Haverford, Pa. Temple University, Philadelphia, Pa. University of Pennsylvania, Philadelphia, Pa. Carnegie Institute of Technology, Pittsburgh, Pa. University of Pittsburgh, Pittsburgh, Pa. Swarthmore College, Swarthmore, Pa. Washington and Jefferson College, Washington, Pa. Brown University, Providence, R. I. Converse College, Spartanburg, S. C. University of Chattanooga, Chattanooga, Tenn. Maryville College, Maryville, Tenn. Fisk University, Nashville, Tenn. Vanderbilt University, Nashville, Tenn. University of the South, Sewanee, Tenn. Rice Institute, Houston, Tex. Baylor University, Waco, Tex. Randolph-Macon College, Ashland, Va. Washington and Lee University, Lexington, Va. Randolph-Macon Woman's College, Lynchburg, Va. University of Richmond, Richmond, Va. Sweet Briar College, Sweet Briar, Va. Whitman College, Walla Walla, Wash. Beloit College, Beloit, Wis.

Appendix

The following additional information regarding the status of military training and physical education is herewith presented, in order that the study may be more complete: (1) Institutions requiring and urging vaccination for smallpox and typhoid for college entrance; (2) selected bibliography.

(1) Institutions Requiring or Urging Vaccination for Smallpox and Typhoid for College Entrance

Institutions Requiring Vaccination for Smallpox 10

Public.—Alabama Polytechnic Institute, University of Alabama, University of Arkansas, University of California, University of Florida, University of Illinois, University of Kansas, University of Michigan, University of North Carolina, North Carolina College for Women, North Carolina State College of Agriculture and Engineering, University of Cincinnati, Ohio State University, Miami University (Ohio), Oklahoma College for Women, University of Oklahoma,¹⁰ Oregon State Agricultural College, Pennsylvania State College, University of South Carolina, South Dakota College of Agriculture and Mechanic Arts,¹⁰ University of Tennessee, University of Texas, Agricultural and Mechanical College of Texas, Virginia Agricultural and Mechanical College and Polytechnic Institute, The College of William and Mary.

Private.—Leland Stanford Jr. University, Wesleyan University (Conn.), Yale University, Connecticut College for Women, Agnes Scott College, Emory University, University of Chicago, Northwestern University, Knox College, De Pauw University,¹⁰ University of Notre Dame, Bates College, Goucher College, Harvard University, Mount Holyoke College, Tufts College, Wellesley College, Washington University (St. Louis, Mo.), Rutgers College, Princeton University, Columbia University, Fordham University, University of Rochester.

Antioch College, Temple University, University of Pennsylvania, University of Pittsburgh, Swarthmore College, Washington and Jefferson College, Brown University, Converse College, Vanderbilt University, Baylor Institute, Sweet Briar College.

Institutions Requiring Vaccination for Smallpox in Emergencies Only

Public.—Louisiana State University, Agricultural and Mechanical College, Mississippi Agricultural and Mechanical College.

Private.-Reed College.

Institutions Urging Vaccination for Smallpox

Public.—University of Minnesota, State University of New Mexico. Private.—Cornell College.

Institutions Requiring Vaccination for Typhoid 11

Public.—University of Kansas, University of Michigan, University of Oklahoma, University of South Carolina, Virginia Agricultural and Mechanical College and Polytechnic Institute.

 ¹⁰ Vaccination for smallpox is required by the Reserve Officers' Training Corps.
 ¹¹ Vaccination for typhoid is one of the Reserve Officers' Training Corps requirements.

Private.—Wesleyan University (Conn.), Agnes Scott College, Emory University, Northwestern University, De Pauw University, Massachusetts Institute of Technology, Fordham University, Antioch College.

Institutions Requiring Vaccination for Typhoid in Emergencies Only

Public.—Louisiana State University and Agricultural and Mechanical College, Mississippi Agricultural and Mechanic Arts College, Oregon State Agricultural College.

Private.-Reed College, University of Chattanooga.

Institutions Urging Vaccination for Typhoid

Public.—Alabama Polytechnic Institute, State University of New Mexico, University of Tennessee.

Private.—Wellesley College, Princeton University, Duke University (North Carolina), Converse College (South Carolina).

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