

Preparation.	Number report-ing.	Lowest percent-age.	Highest percent-age.	Average percent-age.	Number below average.	Num-ber above aver.	Num-ber re- porting aver.	Sug- gested N. F. standard.
Tinct. Ferr. Pomat.....	3	95	10	10	1	0	2	10
" Gall.....	3	85	89	85	0	1	2	85
" Guaiac. Co.....	4	40	46	46	2	0	2	45
" Humul.....	4	45	46	..	2	2	..	45
" Ignat.....	5	70	83	80	1	2	2	80
" Iod. Fort.....	6	60	70	65	3	1	2	65
" Iod. Decolor.....	8	70	85	75	2	3	3	75
" Ipecac et Opii.....	6	12	45	13	1	3	2	12
" Jalap.....	3	56	61	60	1	1	1	60
" Jalap. Co.....	3	60	62	60	0	1	2	60
" Kramer.....	7	35	46	46	2	0	5	45
" Opii Crocat.....	3	45	46	45	1	0	2	45
" Passiflor.....	6	43	48	45	1	1	4	45
" Pectoral.....	3	45	50	48	1	1	1	48
" Persion.....	6	55	73	66	1	3	2	65
" Persion. Co.....	4	25	30	30	3	0	1	28
" Pulsatil.....	5	55	71	70	1	1	3	70
" Quillaj.....	4	27	33	32	1	1	2	30
" Rhei Aq.....	3	..	..	10	..	..	3	10
" Rhei Dulc.....	5	42	46	46	1	..	4	45
" Rhei et Gent.....	4	45	46	46	1	0	3	45
" Sabal. et Santal.....	3	72	75	74	1	1	1	74
" Serpent.....	5	55	60	60	1	0	4	60
" Sumbul.....	4	60	65	60	0	1	3	60
" Vanill.....	9	38	44	40	1	3	5	38
" Viburn. Opul. Co.....	7	65	71	70	4	0	3	68

¹ 5 reported 40%. ² 2 reported 80%, 2 reported 90%. ³ 4 reported 50%, 4 reported 55%.
⁴ 10 reported 60 to 65%. ⁵ One reported 30%. ⁶ 5 reported 65%, 4 reported 70%. ⁷ 4 reported 42%.
⁸ 3 reported 45%. ⁹ 4 reported 20%, 4 reported 25%. ¹⁰ 4 reported 52%. ¹¹ 4 reported 38%.
¹² Reports very variable. ¹³ 4 reported 65%, 4 reported 70%. ¹⁴ Only one reported below 50%.
¹⁵ Only one below 39%, and 1 above 43%. ¹⁶ 3 reported 80%, 3 reported 85%.

DETROIT, JUNE 1922.

THE OPINION OF TEACHERS CONCERNING DEGREES IN PHARMACY.

BY J. G. BEARD.*

In November of 1921 a postal questionnaire was sent to all Conference teachers of professorial rank that had for its object the obtainment of their opinions on the subject of degrees in pharmacy. Ninety-six replies have been received and as this number represents nearly eighty percent of the professors addressed and as these answers are representative of opinion generally it seems unnecessary to delay further in reporting the facts received.

The queries listed on the questionnaire were six in number and were phrased substantially as follows:

Query No. 1. Do you believe the doctor's degree should be offered in pharmacy?

Query No. 2. If so, how many years of study should be required of applicants for the degree?

* School of Pharmacy, University of North Carolina.

- Query No. 3. What abbreviation should be used for the degree?
 Query No. 4. Are you satisfied that the present Ph.G. degree is the proper undergraduate degree?
 Query No. 5. If not, what is your preference?
 Query No. 6. As a four-year degree what is your preference?

The chart below lists the names of the professors and their answers to questions 1, 2, 3, 4, 5 and 6. Numerous footnotes are necessary because so many teachers qualified their answers or else couched their replies in a fashion not to be condensed in the spaces provided by the chart. In so far as possible the phraseology of the replies is retained in the footnotes.

Name.	1.	2.	3.	4.	5.	6.
<i>Alabama Polytechnic Institute</i>						
L. S. Blake	Yes	6 ¹	P.D.	Yes	....	B.S. (Phar.)
<i>Brooklyn College of Pharmacy</i>						
W. C. Anderson	Yes	5	Phar.D.	Yes	....	B.S. (Phar.)
A. P. Lohness	Yes	4	Phar.D.	No ²	Phar.D. or Ph.C.	Phar.D.
<i>Buffalo University (N. Y.)</i>						
J. L. Mayer	Yes	5	Phar.D.	Yes	....	B.Sc. (Phar.)
<i>University of Southern California</i>						
W. G. Gregory	Yes	6	Phar.D.	Yes	....	Phar.B. ³
A. B. Lemon	Yes	6 ⁴	Phar.D.	No	Phar.B.	Ph.C.
<i>Columbia University</i>						
I. J. Stabler	No	..	.....	Yes	....	B.S. (Phar.)
<i>Creighton University (Neb.)</i>						
H. V. Army	Yes	5	Phar.D.	Yes	....	B.S. (Phar.)
C. W. Ballard	Yes	6	Phar.D.	..	....⁵	B.Sc. (Phar.)
G. C. Dickman	Yes	6.	Phar.D.	Yes	....	B.S. (Phar.)
J. Hostmann	Yes	4 or 6 ⁶	Phar.D.	Yes	....	B.S. (Phar.) ⁷
W. B. Simpson	Yes	6	Phar.D.	..	....	B.S. (Phar.)
C. P. Wimmer	Yes	6	Phar.D.	Yes	....	B.S. (Phar.)
<i>Des Moines University (Iowa)</i>						
V. J. Fitz-Simon	No	..	.....	Yes ⁸	....	Ph.C. ⁹
H. C. Newton	No	..	.....	Yes	....	B.S. (Phar.)
W. J. Nolan	No	..	.....	Yes	....	B.S. (Phar.)
E. O. Kagy	Yes	4	Phar.D.	Yes	....	Phar.D.

¹ 2 years beyond B.S. degree.

² Never favored Ph.G. degree.

³ Prefer Ph.C. as 3-year degree.

⁴ As required by National Syllabus.

⁵ Would rather consider it a "diploma title" and not as a degree.

⁶ 4 years, 6 days, or 6 years as in Columbia.

⁷ B.S. for 6-year degree.

⁸ For 3 years' work.

⁹ For 4 years' work.

Fordham University

(N. Y.)

J. Diner	Yes	6	Phar.D.	No	B.S. (Phar.)	B.S. (Phar.)
G. Horstmann	Yes	6	Phm.D.	No	Ph.B.	Ph.M.

George Washington University

H. E. Kalusowski	Yes	.. ¹⁰	Phar.D.	No ¹¹	B.S. (Phar.)
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University of Illinois

W. B. Day	Yes ¹²	8	Ph.D. (Phar.)	Yes ¹³	Ph.C. ³	B.S. (Phar.)
E. N. Gathercoal	Yes	8	Ph.D. or Phar.D.	Yes	Ph.C. ³	B.S. (Phar.)

C. M. Snow	Yes	7	Ph.D.	Yes	B.S. (Phar.) ¹⁴
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State University of Iowa

C. S. Chase	Yes	6	Phar.D.	Yes	No choice
Z. M. Cooper	Yes	6	Phar.D.	No	Ph.C.	B.S. (Phar.)

and
B.S. (Phar.)

R. A. Kuever	Yes	7	Ph.D.	No ¹⁵	B.S. (Phar.)
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W. J. Teeters	No	No	Ph.C. ³	B.S. (Phar.)
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University of Kansas

B. D. Havenhill	Yes	6	Phr.D.	Yes ¹⁶	Phr.B.
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L. E. Sayre	Might well	4	Phar.D.	Yes	B.S. ¹⁷
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G. N. Watson	Yes	6	Phr.D.	Yes	Ph.B. ¹⁸
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Louisville College of Pharmacy (Ky.)

O. C. Dilly	Yes	4	Phar.D.	Yes	Phar.D.
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H. O. Haeusgen	Yes	4	Phar.D.	Yes	Phar.D.
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University of Maryland

C. C. Plitt	Yes	6 or 7	Phar.D. or Ph.D. (Phar.)	Yes	Ph.B.
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Massachusetts College of Pharmacy

T. J. Bradley	No ¹⁹	6	Phm.D.	Yes	B.S. (Phar.)
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J. O. Jordan	No	Yes	Ph.C.
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E. H. LaPierre	No	Yes	Phar.D.
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H. H. Smith	Yes	4 ²⁰	Phar.D.	Yes	Phar.D.
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University of Michigan

H. W. Emerson	No	6	Phm.D.	No	Ph.B.
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A. F. Schlichting	.. ¹²	7	Ph.D.	No ²¹	B.S. (Phar.)	B.S. (Phar.)
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C. H. Stocking	Yes	6	Phar.D.	Yes	B.S.
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¹⁰ It should be given after graduation for any work of distinction.¹¹ Any degree corresponding to university degree given for a specified amount of study.¹² Only as Doctor of Philosophy in Pharmacy.¹³ For 2 years.¹⁴ Should not differ from other sciences.¹⁵ Indeed not. Minimum course of 4 years leading to the degree of B.S. (Phar.).¹⁶ Phr.G.¹⁷ B.S. superimposed upon a Ph.C. (3-year course).¹⁸ A Ph.M. should be offered for 5 years of study.¹⁹ No, except for graduate work—2 years of graduate work after 4 years of undergraduate.²⁰ With at least 2 years of preliminary college course.²¹ No. A 4-year minimum.

*University of Minne-
sota*

G. Bachman	Yes	6	Phm.D.	Yes	....	Phm.B.
E. D. Brown	Yes	.. ²²	Phm.D.	No	Ph.B.	Ph.M. or Ph.C.	
E. L. Newcomb	Yes	5 or 6	Phar.D. or Phm.D. or Pharm.D.	Yes	Ph.C. ²³	B.S. (Phar.)	
C. H. Rogers	Yes	.. ²⁴	Sc.D. (Phar.) or Ph.D. (Phar.)	No	Ph.C.	B.S. (Phar.)	
F. J. Wulling	Yes	6	Phm.D.	No	B.S. (Phm.) ²⁵	B.S. (Phm.)	
<i>University of Missis- sippi</i>							
H. M. Faser	Yes	6	Phm.D.	No	Ph.C. ²³	B.S. (Phar.)	
<i>University of Montana</i>							
J. Sucky	Yes	7	Phar.D.	No	Ph.C.	Ph.B.	
<i>University of Nebraska</i>							
R. A. Lyman	Yes	4 or 6 ²⁶	Phar.D.	.. ²⁷	....	B.Sc. (Phar.) ²⁸
A. Schneider	Yes	5 or 6	P.D.	Yes	....	Ph.B. or B.S.
<i>University of North Carolina</i>							
E. V. Howell	Yes	4	P.D.	Yes	....	P.D.
J. G. Beard	Yes	4	P.D.	Yes	....	P.D.
<i>North Pacific College (Ore.)</i>							
H. C. Miller	Yes	3 ²⁹	P.D. ³⁰ or Ph.C.	No ³¹	....	....³²
<i>Notre Dame (Ind.)</i>							
R. L. Green	No	..	.....	No	....³³	Ph.B.
<i>State University of Ohio</i>							
C. A. Dye	No ³⁴	6	Ph.D.	No	....	B.Sc. (Phar.)
<i>State University of Oklahoma</i>							
D. B. R. Johnson	Yes	6	P.D.	No	....³	Ph.B. or B.S.

²² 3 years after Ph.G. degree—same as in medicine.²³ For 3-year course.²⁴ Sc.D. (Phar.)—6 year, Ph.D. (Pharmacy-major)—7 year.²⁵ Would abolish Ph.C., Ph.B., Ph.M. and give only B.S. at end of minimum course of 4 years. A doctor's degree should only be offered as a post-graduate degree.²⁶ Not less than 4 or perhaps 6. It ought to represent an amount of study equal to that required in medicine.²⁷ Ph.G. is not a degree and never can be. As a "designation" I think it preferable to any for short course.²⁸ B.Sc. in Pharmacy only logical one and comparable to what is offered in Agriculture, Engineering, etc.²⁹ After proper foundation has been laid.³⁰ According to course given.³¹ Abandon Ph.G.³² Increase requirements for admission and complete professional training in 3 years.³³ Certificate of proficiency.³⁴ Not as such.

<i>Agr. College of Oregon</i>						
H. B. McWilliams	No ¹²	6	Ph.D.	Yes ³⁵	....	B.S. (Phar.)
A. Ziefle	Yes	6	Phar.D.	Yes ³⁶	....	B.S. (Phar.)
<i>Philadelphia College of Pharmacy and Science (Pa.)</i>						
E. F. Cook	Yes	6	Phar.D. ³⁷	Yes	....	Ph.B.
R. P. Fischelis	Yes	6	Phar.D.	Yes	....	B.S. (Phar.)
C. H. LaWall	Yes	6 ¹⁹	Phar.D.	No	....	B.Sc. (Phar.)
J. W. Sturmer	Yes	6 ¹⁹	Phar.D.	No	....	B.Sc. (Phar.)
C. E. Vanderkleed	Yes	.. ¹⁹	Phar.D.	Yes ⁸	....	B.S. (Phar.)
H. W. Youngken	Yes	6	Phar.D.	Yes	....	B.Sc. (Phar.)
<i>University of Pitts- burgh (Pa.)</i>						
J. H. Beal	Yes	3 or 4	Phr.D	Yes	....	Phr.D.
F. J. Blumenschein	Yes	4	Phr.D.	Yes	....	Phar.D. (Phr.)
L. K. Darbaker	Yes	4	Phar.D.	Yes	....	Phar.D.
A. F. Judd	Yes	4	Phar.D.	Yes	....	....
J. A. Koch	Yes	4	Phar.D.	Yes	....	Phar.D.
L. Saalbach	Yes	6	Phr.D.	Yes	....	Phr.B.
<i>Purdue University (Ind.)</i>						
W. F. Gidley	No	.. ³⁸	Phar.D.	Yes	....	B.S. (Phar.)
C. O. Lee	No	6 or 7	Phar.D.	Yes	....	B.S. (Phar.)
C. B. Jordan	.. ¹²	7	Ph.D.	Yes	....	B.S. (Phar.)
<i>Medical College of South Carolina</i>						
W. G. Harper	Yes	4	Phar.D.	Yes ³⁰	....	Phar.D.
W. H. Zeigler	Yes	4	Phar.D.	Yes	....	Phar.D.
<i>St. Louis College of Pharmacy (Mo.)</i>						
H. M. Whepley	No	..	.....	Yes	....	Ph.C.
<i>State College of Agri- culture of S. D.</i>						
E. R. Serles	Yes	.. ⁴⁰	Phar.D.	Yes ⁸	....	B.Sc. (Phar.)
<i>University of Tennessee</i>						
R. L. Crowe	Yes	4	Phar.D.	No	Ph.C.	Phar.D.
<i>Tulane University (La.)</i>						
O. W. Bethea	Yes	4	Phar.D.	Yes	....	Phar.D.
G. S. Brown	Yes	4	Phar.D.	Yes	....	Phar.D.
A. B. Dinwiddie	No	..	Phar.D.	Yes	....	Phar.D.
<i>Union University (N. Y.)</i>						
H. C. Muldoon ⁴¹	Yes	6	Phar.D.	Yes	....	B.S. (Phar.)
<i>Medical College of Virginia</i>						
W. G. Crockett	Yes ¹²	..	Ph.D.	Yes	....	B.S. (Phar.)
P. F. Fackenthal	Yes ¹²	..	Ph.D.	Yes	....	B.S. (Phar.)
M. Phipps	Yes ¹²	..	Ph.D.	Yes	....	B.S. (Phar.)
R. W. Miller	Yes ¹²	..	Ph.D.	Yes	....	B.S. (Phar.)
W. F. Rudd	Yes ¹²	..	Ph.D.	Yes	....	B.S. (Phar.)

³⁵ Also Ph.C. for 3-year course.³⁶ Provided the curriculum is thorough.³⁷ To avoid confusion with Ph.D.³⁸ If given, not less than 6, preferably 7 years.³⁹ With a few changes it is sufficient.⁴⁰ At least 2 years beyond an M.S. degree.⁴¹ Now at Valparaiso.

*State College of Wash-
ington*

P. H. Dirstine	Yes	7	Phar.D.	Yes	....³⁶	B.S.
<i>University of Washing- ton</i>						
C. W. Johnson	Yes	.. ⁴²	Ph.D.	No	....⁴³	B.S. (Phar.)
A. W. Linton ⁴⁴	Yes	.. ⁴⁶	Ph.D. (Phar.)	No	....³⁵	B.S. (Phar.)
E. V. Lynn	Yes	7	Ph.D. (Phar.)	Yes	....	B.S. (Phar.)
<i>Western Reserve (Ohio)</i>						
E. Spease	No ⁴⁶	6 or 7 ⁴⁷	D.Sc. or Ph.D.	..	....	B.S.
E. E. Stanford	No ⁴⁸	7	Ph.D.	Yes	....	B.S. (Phar.)
<i>University of West Virginia</i>						
G. A. Bergy	Yes	6	P.D.	No	B.S. Pharm.	B.S. (Phar.)
<i>University of Wiscon- sin</i>						
R. H. Denniston	No	..	....	Yes	....	B.S. (Phar.)
E. Kremers	Yes ¹²	7	Ph.D.	No	....	B.S. (Phar.)
W. O. Richtmann	Yes	7	Ph.D. (Pharm.)	No	B.S. Pharm.	B.S. (Phar.)

It is to be observed that prevailing opinion in teaching circles favors the award of the doctor's degree after the completion of six to seven years of study. It is to be noticed further that the abbreviation preferred by a majority of those answering is Phar.D.; that sixty-five of the ninety-six teachers are content with the Ph.G. degree for a two-year course; and that the B.S. as a four-year degree satisfies fifty-eight of those replying.

A large number of teachers added as a footnote that high school graduation should be a prerequisite to any degree work in pharmacy.

CHAPEL HILL, N. C.
APRIL 25, 1922.

TEAM-WORK.*

Primitive man was rather a rough character if we can judge from the savage races still to be found in out-of-the-way places in the world to-day. He lived and toiled alone; he fought for what he had to eat and wear. The chase supplied him

⁴² Same requirement as Ph.D. in leading universities. Ph.D. (Major in Pharmacy).

⁴³ Anything less than a bachelor's degree should be called a certificate.

⁴⁴ Deceased.

⁴⁵ Depending upon time required for thesis work. Approximately 3 years beyond B.S.

⁴⁶ D.Sc. or Ph.D. should be offered instead.

⁴⁷ From 2 to 3 years beyond that of the A.B. or B.S. degree.

⁴⁸ Minimum of 3 years. Post-graduate study to include an achievement of discovery of recognized scientific value.

* A talk to the New England Branch of the American Pharmaceutical Association on May 3, 1922, by Charles W. Pearson, Lecturer on Commercial Pharmacy, at the Massachusetts College of Pharmacy.