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AUTHOR Mickelson, Susan, Comp.
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ABSTRACT

In 1971, the Council for University Women's Progress first prepared tables which compared all Ph.D's attained by women to those attained by men in the same fields. This document brings this data up to date and supplements it with tables on master's and bachelor's degrees, as well as first professional degrees. The tables show data such as the proportion of bachelor's, master's, and doctoral degrees earned by women by major field of study and selected subfield; the proportion of first professional degrees earned by women; bachelor's, master's and doctorates earned by women by major field and as a percentage of all degrees earned by women for the periods 1960-61 and 1971-72. These data have supplied some evidence that women's career interests are changing. (JMF)

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A WEAL FUND REPORT :

FOR INTERNATIONAL WOMAN'S YEAR

WOMEN GRADUATES

A statistical survey of the proportion
of women earning degrees in higher education
in the United States.

Made possible by a grant from the Weyerhaeuser
Foundation of St. Paul, Minnesota, August 1975

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INTRODUCTION

In 1971, the Council for University Women's Progress, an action group at the University of Minnesota, began to search for data to support its claim that the University was making insufficient affirmative action efforts. The administration asked for evidence that qualified women were indeed available. In attempting to respond, the Council found that nowhere were there tables which compared all Ph.D.'s attained by women to those attained by men in the same fields. Consequently, the Council prepared such a table, which was reprinted by several national publications and was later reproduced in quantity by WEAL. It proved to be one of WEAL's most requested documents.

After four years, however, the time has come to bring the information up to date and to supplement it. This report contains similar information to the 1971 report and adds tables on master's and bachelor's degrees, as well as first professional degrees. There is much impressionistic evidence that women's career interests are changing. It will take several years of studies such as this to prove if impressions are correct. As this report is extended over longer periods of time, it is hoped that comparing undergraduate fields of study with graduate fields will demonstrate these changing interests.

Since the original table was compiled, the National Center for Educational Statistics and the National Center for Educational Research have developed a new Taxonomy of Instructional Programs. This taxonomy will be used for the next five years and is followed in this report. Translation tables from the old taxonomy to the new were utilized in compiling the new data and are fully footnoted. For convenience of comparison, the 1971 table has been reproduced in the appendix. In all cases, when a year such as 1969 is cited, it refers to the academic year, such as 1969-70.

The reporting of data such as these is made complex not only by changes in the designation of disciplines, but by the emergence of new fields and subfields. In addition, there are long lapses of time in the collection of data and again in its release. The 1971-72 data, in fact, are considered preliminary (although reliable), even though they are three years old.

This report was made possible by a grant from the Weyerhaeuser Foundation. Susan Nickelson compiled the data, and Anne Thorsen Truax acted as consultant. Comments, criticisms, and suggestions for making this study more useful will be welcomed.

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**PROPORTION OF BACHELOR'S DEGREES EARNED BY WOMEN
BY MAJOR FIELD OF STUDY
UNITED STATES, 1969-1972**

MAJOR FIELDS OF STUDY	Total Number of Bachelor's Degrees Earned, 1969-1972	Total Number of Bachelor's Degrees Earned By Women, 1969-1972	Percentage of Bachelor's Degrees Earned By Women, 1969-1972	Percent Increase or Decrease Since 1969
GRAND TOTALS	2,515,501	1,091,598	43.39	+ .65
Agriculture and Natural Resources	38,691	1,809	4.68	+1.53
Architecture and Environmental Design	16,113	1,654	10.27	+6.72
Area Studies	7,596	3,939	51.86	-3.13
Biological Sciences	110,362	31,775	28.79	+1.71
Business and Management	342,541	31,342	9.15	+.80
Communications ¹	29,103	10,617	36.48	+.18
Computer and Information Sciences	7,303	984	13.47	+.79
Education	531,456	396,454	74.60	-1.25
Engineering	150,035	1,312	.87	+.28
Fine & Applied Arts	100,104	58,926	58.86	+2.60
Foreign Languages	59,636	44,293	74.27	+1.28
Health Professions ²	75,466	58,029	76.89	-2.24
Home Economics	33,455	32,437	96.96	-.70
Law	1,602	86	5.37	+1.89
Letters ³	210,463	128,103	60.87	1.75
Library Science	3,056	2,823	92.67	+1.49
Mathematics	75,869	28,956	38.17	+1.78
Military Science	2,410	1	.04	-.04
Physical Sciences	63,246	8,952	14.15	+1.50
Psychology	114,562	51,349	44.82	+2.94
Public Affairs and Services	29,658	14,557	49.08	-4.73
Social Sciences ⁴	461,041	167,590	36.35	+.36
Theology	11,453	3,191	27.86	-.82
Interdisciplinary Studies	40,280	12,519	31.08	+.79

¹ Percentage change based upon 1970-72 data only. 1969-70 data contains journalism only. 1970-72 data also includes radio/TV, Advertising and Communications Media.

² Includes Nursing.

³ Includes English and Literature, Classics, Linguistics, Speech, Debate and Forensic Science, and Philosophy.

⁴ Includes Public Administration and Social Work.

**PROPORTION OF MASTER'S DEGREES EARNED BY WOMEN
BY MAJOR FIELD OF STUDY AND SELECTED SUBFIELD
UNITED STATES, 1969-1972**

MAJOR FIELDS OF STUDY AND SUBFIELDS	Total Number of Master's Degrees Earned, 1969-1972	Total Number of Master's Degrees Earned By Women, 1969-1972	Percentage of Master's Degrees Earned By Women, 1969-1972	Percent Increase or Decrease Since 1969
GRAND TOTAL	688,875	277,003	40.21	+1.09
Agriculture and Natural Resources	7,318	467	6.38	+ .66
Architecture and Environmental Design	5,028	676	13.44	+2.70
(City, Community and Regional Planning)	2,476	432	17.45	+1.27
Area Studies	2,843	1,110	39.04	-.21
Biological Sciences	17,628	5,762	32.69	+1.95
Business & Management	77,824	2,985	3.84	+.48
(Accounting)	3,557	290	8.15	+.55
(Business Management and Administration) ¹	21,450	712	3.32	same
Communications ²	4,918	1,700	34.57	-.18
(Journalism)	2,665	915	34.33	+1.34
Computer & Information Sciences	4,894	522	10.67	+2.82
Education	265,516	149,712	56.39	+1.98
(Educational Administration)	24,274	5,347	22.03	-4.32
(Student Personnel Counseling & Guidance)	39,067	19,844	50.79	+.92
Engineering	48,816	638	1.31	+.54
Fine & Applied Arts	22,061	10,344	46.89	-.75
Foreign Languages	14,174	9,161	64.63	+1.53
Health Professions	17,356	9,556	55.06	+4.71
(Public Health)	3,978	1,519	38.19	+3.56
Home Economics	4,418	4,130	93.48	-1.71
Law	2,455	125	5.09	+2.36
Letters	35,290	20,194	57.22	+1.35
Library Science	20,895	16,996	81.34	-3.14
Mathematics	16,018	4,731	29.54	+.09
Military Science	2	-		
Physical Sciences	18,462	2,568	13.91	+.10
Psychology	13,831	5,240	37.89	+.42
(Psychology for Counseling)	1,449	617	42.58	+11.72
Public Affairs and Services	24,662	12,007	48.69	-5.57
(Public Administration)	4,372	439	10.04	-.11
(Social Work)	18,129	10,967	60.49	-1.13
Social Sciences	50,076	14,115	28.19	+.26
Theology	8,319	1,991	23.93	-.59
Interdisciplinary Studies	6,071	2,273	37.44	+2.07

1 Percentage change is based upon 1970-72 data only. Business management and administration was not designated as a subfield in 1969-70.

2 Percentage change based on 1970-72 data only. 1969-70 data contains journalism only.

**PROPORTION OF DOCTORATES EARNED BY WOMEN,
BY MAJOR FIELD OF STUDY AND SUBFIELD,
UNITED STATES, 1969-1972**

MAJOR FIELDS OF STUDY AND SUBFIELDS	Total Number of Doctorates Earned 1969 - 1972	Total Number of Doctorates Earned by Women, 1969-72	Percentage of Doctorates Earned by Women, 1969-72	Percent Increase or Decrease Since 1969		MAJOR FIELDS OF STUDY AND SUBFIELDS	Total Number of Doctorates Earned 1969 - 1972	Total Number of Doctorates Earned by Women, 1969-72	Percentage of Doctorates Earned by Women, 1969-72	Percent Increase or Decrease Since 1969
GRAND TOTALS, all fields	95,303	13,823	14.50	+2.50		Russian & Slavic Studies	8	—		
AGRICULTURE and NATURAL RESOURCES, total	3,063	85	2.78	+1.12		Latin American Studies	15	2	13.33	(+16.67)
Agriculture, general	—	—	—	—		Middle Eastern Studies	1	1	100.00	(+100.00)
Agronomy	502	9	1.79	+2.16		European Studies, general	—	—		
Soil Science ¹	254	10	3.94	+ .81		Eastern European Studies	—	—		
Animal Science ²	446	14	3.14	-1.66		Western European Studies	—	—		
Dairy Science ³	93	3	3.23	-3.14		American Studies	189	42	22.22	(+4.95)
Poultry Science	67	—	—	—		Pacific Area Studies	—	—		
Fish, Game & Wildlife Management	139	2	1.44	- .52		Other	189	21	11.11	
Horticulture ⁴	224	10	4.46	-4.85		BIOLOGICAL SCIENCES	10,587	1,686	15.93	+2.77
Ornamental Horticulture ⁵	10	1	10.00	+33.33		Biology, general	1,587	352	22.18	+1.94
Agriculture & Farm Management	—	—	—	—		Botany, general	673	352	22.18	+1.94
Agricultural Economics	559	7	1.25	+2.41		Bacteriology ⁶	426	91	21.36	(+4.95)
Agricultural Business	—	—	—	—		Plant Pathology	302	17	5.63	+ .81
Food Science and Technology	294	25	8.50	-4.53		Plant Pharmacology	—	—		
Forestry	276	—	—	—		Plant Physiology	104	5	4.81	+1.20
Natural Resources Management	31	1	3.23	(+6.66)		Zoology, general	1,230	166	13.50	+2.81
Agriculture and Forestry Technologies*	16	1	6.25	(+12.5)		Pathology, Human and Animal	465	60	12.90	-2.62
Range Management*	32	—	—	—		Physiology, Human and Animal	727	99	13.62	+5.71
Other	120	2	1.67			Microbiology*	649	132	20.34	(+4.12)
ARCHITECTURE AND ENVIRONMENTAL DESIGN⁶	121	12	9.92	+8.29		Anatomy*	441	84	19.05	(+8.24)
Environmental Design, General*	9	2	22.22	-100.00		Histology*	5	1	20.00	(+25.00)
Architecture	21	1	4.76	same		Biochemistry	1,424	229	16.08	+2.77
Interior Design*	—	—	—	—		Biophysics	293	39	13.31	+4.62
Landscape Architecture*	—	—	—	—		Molecular Biology	114	34	29.82	+6.26
Urban Architecture*	3	1	33.33	(-33.33)		Cell Biology ⁹ *	34	17	50.00	+23.50
City, Community and Regional Planning	81	7	8.64	(+13.48)		Marine Biology*	33	3	9.09	(+14.29)
Other	6	1	16.67			Biometrics and Biostatistics*	47	9	19.15	(+5.07)
AREA STUDIES⁷	434	69	15.90	+5.47		Ecology	46	4	8.70	+10.53
Asian Studies, general	6	—	—	—		Entomology	582	26	4.47	+ .14
East Asian Studies	7	1	14.29	(-16.67)		Genetics	357	58	16.25	+2.12
South Asian Studies	5	1	20.00	(+50.00)		Radiobiology*	28	2	7.14	(-15.38)
Southeast Asian Studies	—	—	—	—		Nutrition, scientific	155	39	25.16	(-3.42)
African Studies	3	—	—	—		Neurosciences*	29	4	13.79	(+1.79)
Islamic Studies	5	—	—	—		Toxicology*	14	3	21.43	(+2.22)
						Embryology*	2	1	50.00	(-100.00)
						Other	603	99	16.42	
						BUSINESS & MANAGEMENT	2,315	53	2.29	+ .56
						Business & Commerce, general	677	9	1.33	+ .13
						Accounting	168	6	3.57	-5.36
						Business Statistics	17	—	—	—
						Banking and Finance	110	1	.91	-2.63

* Indicates a newly designated subfield as of 1970-1971.

() Indicates percent increase or decrease based on 1970-1972 data.

NOTE: Percent increase or decrease since 1969 was not computed for residual categories.

— Indicates no degrees were awarded in this subfield.

SEE INDIVIDUAL FOOTNOTES AT END OF THE TABLE.

MAJOR FIELDS OF STUDY AND SUBFIELDS	Total Number of Doctorates Earned 1969 - 1972	Total Number of Doctorates Earned by Women, 1969-72	Percentage of Doctorates Earned by Women, 1969-72	Percent Increase or Decrease Since 1969
Investments & Securities	3	—		
Business Management & Administration	705	22	3.12	(-.26)
Operations Research *	87	3	3.45	(-1.30)
Hotel & Restaurant Management	2	—		
Marketing & Purchasing	105	2	1.90	+4.35
Transportation & Public Utilities	11	—		
Real Estate	12	1	8.33	-12.5
Insurance *	6	—		
International Business *	20	—		
Secretarial Studies	—	—		
Personnel Management *	21	—		
Labor & Industrial Relations	43	1	2.33	(-4.00)
Business Economics *	144	6	4.17	(-3.45)
Other	184	2	1.09	
COMMUNICATIONS ¹⁰	273	34	12.45	(+.41)
Communications, general *	162	27	16.67	(+1.26)
Journalism, Printed Media	43	3	6.98	+9.09
Radio/Television *	6	—		
Advertising *	—	—		
Communications Media *	6	—		
Other	56	4	7.14	
COMPUTER AND INFORMATION SCIENCES	402	17	4.23	+5.32
Computer and Information Sciences, general	335	16	4.78	+5.09
Information Sciences and Systems *	27	1	3.70	(+6.25)
Data Processing	—	—		
Computer Programming	—	—		
Systems Analysis	14	—		
Other	26	—		
EDUCATION, Total	19,317	4,209	21.79	+1.57
Education, general	4,599	986	21.44	1.67
Elementary Education, General	750	342	45.60	+8.31
Secondary Education, General	719	126	17.52	+10.02
Jr. High School Education *	2	1	50.00	(-50.00)
Higher Education, General *	527	89	16.89	(+4.01)
Junior & Community College Education *	14	3	21.43	(+8.33)
Adult and Continuing Education	267	52	19.48	+10.81
Special Education, General *	280	94	33.51	(+1.88)
Administration of Special Education	35	6	17.14	-4.24
Education of the Mentally Retarded	60	13	21.67	+13.28
Education of the Gifted *	—	—		
Education of the Deaf	12	5	41.67	-16.7
Education of the Culturally Disadvantaged *	4	1	25.00	(+25.00)
Education of the Physically Handicapped	4	2	50.00	-100.00

MAJOR FIELDS OF STUDY AND SUBFIELDS	Total Number of Doctorates Earned 1969 - 1972	Total Number of Doctorates Earned by Women, 1969-72	Percentage of Doctorates Earned by Women, 1969-72	Percent Increase or Decrease Since 1969
Speech Correction *	53	21	39.62	(+59.62)
Education of the Emotionally Disturbed	32	8	25.00	same
Remedial Education *	5	3	60.00	(+60.00)
Special Learning Disabilities	6	1	16.67	(+33.33)
Education of the Physically Handicapped ¹¹	4	3	75.00	+75.00
Education of the Multiple Handicapped	1	—		
Social Foundations ¹²	372	95	25.54	+3.21
Educational Psychology ¹³	1,052	289	27.47	+38
Pre-elementary Education	28	22	78.51	+6.41
Education Statistics and Research *	106	25	23.58	(+2.59)
Education Testing, Evalu- ation & Measurement *	72	18	25.00	(+8.57)
Student Personnel ¹⁴	1,676	382	22.79	+1.92
Educational Administration ¹⁵	3,028	226	7.46	(-2.14)
Educational Supervision *	149	21	14.09	(+2.70)
Curriculum & Instruction	1,387	378	27.25	+5.15
Reading Education ¹⁶	151	77	50.99	(+3.04)
Art Education	150	40	26.67	+8.95
Music Education	316	42	13.29	+6.23
Mathematical Education *	100	23	23.00	(-14.92)
Science Education *	186	37	19.89	+6.68
Physical Education	824	234	28.40	+2.28
Driver and Safety Education *	2	1	50.00	(-50.00)
Health Education ¹⁷	163	35	21.47	-5.95
Business, Commerce & Distributive Education	226	74	32.74	(+6.49)
Industrial Arts, Vocational and Technical Education	341	15	4.40	-1.68
Other	1,614	419	25.96	
ENGINEERING, total	10,989	69	.63	.05
Engineering, general	648	5	.77	+7.1
Aerospace, Aeronautical & Astronautical Engineering	616	5	.81	-9.5
Agricultural Engineering	177	—		
Architectural Engineering	8	—		
Bioengineering & Biomedical Engineering *	75	—		
Chemical Engineering	1,238	7	.55	+7.6
Petroleum Engineering ¹⁸	54	1	1.85	-5.88
Civil, Construction & Trans- portation Engineering	1,272	7	.55	-0.1
Electrical, Electronics & Communications Engineering	2,585	9	.35	+0.2
Mechanical Engineering	1,284	1	.08	+2.4
Geological Engineering	36	—		
Geophysical Engineering *	8	—		
Industrial & Management Engineering	433	6	1.39	-2.38
Metallurgical Engineering ¹⁹	499	4	.80	(+.90)
Materials Engineering *	174	1	.57	(-100)
Ceramic Engineering	68	2	2.94	+1.09
Textile Engineering *	4	—		
Mining & Mineral Engineering	118	3	2.54	-2.35
Engineering Physics *	56	1	1.79	(-3.85)

MAJOR FIELDS OF STUDY AND SUBFIELDS	Total Number of Doctorates Earned 1969 - 1972	Total Number of Doctorates Earned by Women, 1969-72	Percentage of Doctorates Earned by Women, 1969-72	Percent Increase or Decrease Since 1969
Nuclear Engineering	379	3	79	+ 95
Engineering Mechanics	600	5	83	+ 70
Environmental & Sanitary Engineering	132	3	2 27	+ 2 50
Naval Architecture & Marine Engineering	30	—	—	—
Ocean Engineering*	10	—	—	—
Engineering Technologies	26	—	—	—
Other	459	6	1 31	—
FINE ARTS, total	1,927	424	22.00	+5.82
Fine Arts, general*	47	15	31.91	(+17.11)
Arts, Painting, Drawing, Sculpture ²⁰ *	36	14	38.89	(+38.00)
Art History and Appreciation*	85	40	47.06	(-1.68)
Music (Performing, Composition & Theory) ²¹ *	680	108	15.82	(-3.35)
Music Liberal Arts Program*	166	36	21.87	(+13.63)
Music History and Appreciation*	74	13	17.57	(+16.47)
Dramatic Arts ²² *	557	99	17.77	(+8.93)
Dance*	4	4	100.00	same
Applied Design*	2	1	50.00	(-50.00)
Cinematography*	—	—	—	—
Photography*	—	—	—	—
Other	276	94	34.06	—
FOREIGN LANGUAGE, total	2,382	879	36.90	+5.82
Foreign Languages, General*	273	115	42.12	(-5.34)
French	566	264	46.64	+1.81
German	429	138	32.17	+2.68
Italian	43	14	32.56	+10.15
Spanish	459	175	38.13	-3.92
Russian	53	12	22.64	-17.50
Chinese	19	4	21.05	+36.37
Japanese	4	1	25.00	same
Latin ²³	101	28	27.72	(+50.00)
Greek, Classical*	32	14	43.75	(+11.11)
Hebrew	25	—	—	—
Arabic*	4	1	25.00	(-25.00)
Indian, Asiatic*	3	—	—	—
Scandinavian Languages*	8	2	25.00	(+28.57)
Slavic Languages, other than Russian	85	32	37.65	+3.19
African Languages, Non-Semitic*	2	1	50.00	(-100.00)
Other	276	78	28.26	—
HEALTH PROFESSIONS, total	1,262	215	17.04	+1.97
Health Professions, general*	34	3	8.82	(+76)
Hospital & Health Care Administration	33	—	—	—
Nursing, BA or Higher Programs	28	26	92.86	+9.09
Dental Specialties ²⁴	30	1	3.33	-20.00
Medical Specialties ²⁵	99	18	18.18	-3.81
Occupational Therapy	—	—	—	—
Optomety	7	—	—	—
Academy	274	20	7.30	-6.00
Physical Therapy	—	—	—	—

MAJOR FIELDS OF STUDY AND SUBFIELDS	Total Number of Doctorates Earned 1969 - 1972	Total Number of Doctorates Earned by Women, 1969-72	Percentage of Doctorates Earned by Women, 1969-72	Percent Increase or Decrease Since 1969
Dental Hygiene, BA or Higher Programs	256	64	25.00	+ 8.64
Medical Records Librarianship	—	—	—	—
Podiatry or Podiatric Medicine ²⁶	—	—	—	—
Biomedical Communication	—	—	—	—
Veterinary Medicine Specialties ²⁷	141	1	.71	same
Speech Pathology & Audiology*	128	41	32.03	(+1.33)
Clinical Social Work*	24	8	33.33	(+6.72)
Medical Laboratory Technologies, BA or Higher Programs	4	1	25.00	—
Radiologic Technologies	14	—	—	—
Other	190	32	16.84	—
HOME ECONOMICS, total	343	232	67.64	-.40
Home Economics, general	56	54	96.43	-14.29
Home Decoration & Home Equipment*	2	2	100.00	(same)
Clothing & Textiles	29	27	93.10	+15.38
Consumer Economics and Home Management*	8	7	87.50	(+20.00)
Family Relations and Child Development	139	66	47.48	(-25.05)
Foods & Nutrition	90	61	67.78	-2.96
Institutional Management & Cafeteria Management	3	3	100.00	+100.00
Other	16	12	75.00	—
LAW, total	94	4	4.26	-6.01
LETTERS, total	6,799	1,717	25.25	+2.34
English, general ²⁸	3,326	1,042	31.33	(+2.20)
English Literature*	596	206	34.56	(+7.23)
Comparative Literature*	188	60	31.91	(+5.61)
Classics*	115	19	16.52	(+4.93)
Linguistics	398	94	23.62	+3.36
Speech, Debate & Forensic Science*	473	107	22.62	(-1.55)
Creative Writing*	12	1	8.33	(+16.67)
Teaching English As A Foreign Language*	8	3	37.50	(-60.00)
Philosophy	1,117	124	11.10	-.17
Religious Studies*	480	36	7.50	+5.06
Other*	86	25	29.07	—
LIBRARY SCIENCE, total	143	55	38.46	+3.75
MATHEMATICS, total	3,563	278	7.80	+1.12
Mathematics, general	2,948	235	7.97	+ .81
Statistics, Mathematical and Theoretical	542	42	7.75	-2.84
Applied Mathematics*	73	1	1.37	+3.33
Other	—	—	—	—
PHYSICAL SCIENCES, total	12,789	751	5.87	+1.16
Physical Sciences, general	74	2	2.70	+2.63
Physics, general ²⁹	4,219	121	2.87	+ .59
Molecular Physics*	9	1	11.11	(+11.11)
Chemistry, general ³⁰	5,970	500	8.38	+2.06
Inorganic Chemistry*	37	8	21.62	(+8.05)
Organic Chemistry*	100	9	9.00	(+1.10)

MAJOR FIELDS OF STUDY AND SUBFIELDS	Total Number of Doctorates Earned 1969 - 1972	Total Number of Doctorates Earned by Women, 1969-72	Percentage of Doctorates Earned by Women, 1969-72	Percent Increase or Decrease Since 1969
Physical Chemistry *	72	8	11.11	(+.67)
Analytical Chemistry *	18	—		
Pharmaceutical Chemistry	135	9	6.67	+5.83
Astronomy	252	20	7.94	-1.81
Astrophysics *	41	2	4.88	(+1.71)
Atmospheric Sciences and Meteorology *	179	2	1.12	-.92
Geology	804	31	3.86	+2.45
Geochemistry	10	2	20.00	+8.33
Geophysics and Seismology	103	3	2.91	-3.25
Earth Sciences, general	110	7	6.36	+3.25
Paleontology *	12	1	8.33	(-14.29)
Oceanography	194	7	3.61	(-4.22)
Metallurgy	75	—		
Other	339	17	5.01	
PSYCHOLOGY, total	5,331	1,266	23.75	+2.53
Psychology, general	4,170	988	23.69	+1.89
Experimental Psychology, (animal & human) *	145	29	20.00	(-1.65)
Clinical Psychology	425	94	22.12	+.99
Psychology for Counseling	67	12	17.91	+6.36
Social Psychology	123	35	28.46	-6.76
Psychometrics *	3	1	33.33	(+100.00)
Statistics in Psychology *	—	—		
Industrial Psychology *	8	1	12.50	(-20.00)
Developmental Psychology *	47	22	46.81	(+.91)
Physiological Psychology *	17	4	23.53	(-34.62)
Other	326	80	24.54	
PUBLIC AFFAIRS & SERVICES, total	532	125	23.50	-3.37
Community Services, general *	3	1	33.33	(+100.00)
Public Administration	146	11	7.53	+4.07
Park & Recreation Management	26	6	23.08	+8.33
Social Work and Helping Services	314	102	32.48	-4.65

MAJOR FIELDS OF STUDY AND SUBFIELDS	Total Number of Doctorates Earned 1969 - 1972	Total Number of Doctorates Earned by Women, 1969-72	Percentage of Doctorates Earned by Women, 1969-72	Percent Increase or Decrease Since 1969
Law Enforcement & Corrections *	4	—		
International Public Service	4	—		
Other *	35	5	14.29	
SOCIAL SCIENCES, total	11,216	1,549	13.81	+2.88
Social Sciences, general	166	36	21.70	+10.42
Anthropology	697	187	26.83	+1.29
Archaeology *	13	7	53.85	(+10.00)
Economics	2,309	165	7.15	+1.01
History	3,162	435	13.76	+2.05
Geography	512	34	6.64	+2.46
Political Science & Government	1,983	221	11.14	-.12
Sociology	1,744	359	20.58	+1.90
Criminology *	27	4	14.81	(-11.67)
International Relations	219	20	9.13	+1.34
Afro-American Studies *	1	—		
Urban Studies	3	—		
Demography *	17	5	29.41	(-15.28)
Other	363	76	20.94	
THEOLOGY, total	1,034	34	3.29	+2.27
Theology Professions, General	789	20	2.53	+2.62
Religious Music *	16	4	25.00	(+40.00)
Biblical Languages	4	—		
Religious Education	127	7	5.51	-.65
Other	98	3	3.06	
INTERDISCIPLINARY STUDIES, total ³¹	387	60	15.50	-1.03
General Liberal Arts and Sciences *	14	3	21.43	(-27.27)
Biological and Physical Sciences *	34	4	11.76	(+9.12)
Humanities and Social Sciences	60	20	33.33	same
Engineering and Other Disciplines *	65	3	4.62	(+6.25)
Other	214	30	14.02	

- 1 Includes management and conservation
- 2 Includes animal nutrition
- 3 Includes husbandry
- 4 Includes fruit and vegetable production.
- 5 Includes floriculture, nursery science
- 6 This field was not subdivided in 1969-70. Data for that year included under the subfield architecture.
- 7 This field was not subdivided in 1969-70. Data for that year included under the residual category.
- 8 Includes virology, mycology and parasitology.
- 9 Includes cytology, cell physiology
- 10 Communications is a newly designated field as of 1971. All subfields are new except for journalism.
- 11 In 1969-70 this field was listed as Education of the Crippled.
- 12 Includes history and philosophy of education.
- 13 Includes learning theory.

- 14 Includes counseling and guidance
- 15 1969-70 data includes supervision and finance
- 16 Includes methodology and theory
- 17 Includes family life education
- 18 Includes petroleum refining.
- 19 1969-70 data includes materials engineering
- 20 1969-70 data includes all arts
- 21 1969-70 data includes all music
- 22 1969-70 data includes speech
- 23 1969 data includes classical greek
- 24, 25, 26, 27 Work beyond first professional degree
- 28 1969-70 data includes all english
- 29 Excludes biophysics
- 30 Excludes biochemistry
- 31 This field was not subdivided in 1969. Data for that year is included in the residual category.

**PROPORTION OF FIRST PROFESSIONAL DEGREES
EARNED BY WOMEN, UNITED STATES, 1969-1972**

MAJOR FIELDS OF STUDY	Total Number of First Professional Degrees Earned, 1969-1972	Total Number of First Professional Degrees Earned By Women, 1969-1972	Percentage of First Professional Degrees Earned By Women, 1969-1972	Percent Increase Or Decrease Since 1969
TOTAL, All Institutions¹	116,275	6,931	5.96	+ 92
Dentistry (D.D.S. or D.M.D.)	11,325	119	1.05	+ 20
Medicine (M.D.)	26,486	2,338	8.83	+ 56
Optometry (O.D.)	1,646	51	3.10	-2.93
Osteopathy (D.O.)	1,387	40	2.88	+ .73
Podiatry (Pod.D. or D.P.) or Podiatric Medicine (D.P.M.)				
includes Chiropody	769	8	1.04	- .44
Veterinary Medicine (D.V.M.)	3,705	305	8.23	+ 1.92
Law (LL.B. or J.D.)	54,101	3,539	6.54	+ 1.51
Theological Professions (B.D., Rabbi, M.Div.)	15,921	349	2.19	-.38
Other	935	182	19.47	

¹ Includes degrees which require at least six years of college work for completion (including at least two years of pre-professional training).

**BACHELOR'S, MASTER'S AND DOCTORATES EARNED BY WOMEN
BY MAJOR FIELD AND AS A PERCENTAGE OF ALL DEGREES EARNED BY WOMEN
UNITED STATES, 1960-1961**

MAJOR FIELD	BACHELOR'S DEGREES		MASTER'S DEGREES		DOCTORATES	
	Number of Degrees Earned By Women	Percentage of All Degrees Earned By Women	Number of Degrees Earned By Women	Percentage of All Degrees Earned By Women	Number of Degrees Earned By Women	Percentage of All Degrees Earned By Women
TOTAL, all fields	141,910	100.00	24,111	100.00	1,112	100.00
Agriculture	68	.05	26	.11	4	.36
Architecture	10	.01	27	.11	—	—
Biological Sciences	4,264	3.00	556	2.31	140	12.59
Business & Commerce	3,786	2.67	147	.61	2	.18
Education	66,687	46.99	15,149	62.83	359	32.28
Engineering	129	.09	28	.12	6	.54
English & Journalism	14,610	10.30	1,695	7.03	82	7.37
Fine & Applied Arts	7,058	4.97	1,093	4.53	43	3.87
Foreign Languages and Literature	4,135	2.91	678	2.81	61	5.49
Forest	2	.00	3	.01	—	—
Geography	150	.11	28	.12	3	.27
Health Professions	8,735	6.16	712	2.95	4	.36
Home Economics	4,307	3.04	568	2.36	30	2.70
Law	—	—	28	.12	—	—
Library Science	389	.27	285	1.18	—	—
Mathematics	3,644	2.57	466	1.93	17	1.53
Philosophy	421	.30	64	.27	17	1.53
Physical Sciences	2,008	1.41	345	1.43	70	6.30
Earth Science	76	.05	13	.05	4	.36
Psychology	3,431	2.42	543	2.25	136	12.23
Religion	1,162	.82	168	.70	10	.90
Social Sciences	15,363	10.83	1,300	5.39	122	10.97
Trade and Industrial Training	8	.01	1	.00	—	—
Miscellaneous Fields	1,540	1.09	201	.83	6	.54

**BACHELOR'S, MASTER'S AND DOCTORATES EARNED BY WOMEN,
BY MAJOR FIELD AND AS A PERCENTAGE OF ALL DEGREES EARNED BY WOMEN
UNITED STATES, 1971-1972**

MAJOR FIELD	BACHELOR'S DEGREES		MASTER'S DEGREES		DOCTORATES	
	Number of Degrees Earned By Women	Percentage of All Degrees Earned By Women	Number of Degrees Earned By Women	Percentage of All Degrees Earned By Women	Number of Degrees Earned By Women	Percentage of All Degrees Earned By Women
TOTAL, all fields	386,683	100.00	102,083	100.00	5,273	100.00
Agriculture and Natural Resources	737	.19	190	.19	26	.49
Architecture and Environmental Design	773	.20	273	.27	7	.13
Area Studies	1,450	.38	396	.39	28	.53
Biological Studies	10,970	2.84	2,014	1.97	622	11.80
Business & Management	11,592	3.00	1,201	1.18	20	.38
Communications	4,376	1.13	757	.74	15	.28
Computer and Information Sciences	461	.12	225	.22	12	.23
Education	141,641	36.6	56,152	55.01	1,660	31.48
Engineering	526	.14	272	.27	22	.42
Fine & Applied Arts	20,251	5.24	3,488	3.42	144	2.73
Foreign Languages	14,101	3.65	3,000	2.94	315	5.98
Health Professions	21,606	5.59	4,066	3.98	80	1.52
Home Economics	11,645	3.01	1,544	1.51	74	1.40
Law	33	.01	50	.05	1	.02
Letters	43,958	11.37	7,340	7.19	703	13.33
Library Science	923	.24	5,899	5.78	28	.53
Mathematics	9,259	2.39	1,543	1.51	89	1.69
Military Science	—	—	—	—	—	—
Physical Sciences	3,082	.80	883	.87	273	5.18
Psychology	19,934	5.16	2,030	1.99	467	8.86
Public Affairs & Services	5,999	1.55	4,360	4.27	46	.87
Social Sciences	57,266	14.81	4,914	4.81	598	11.34
Theology	1,079	.28	645	.63	21	.40
Interdisciplinary Studies	5,021	1.30	841	.82	22	.42

**HISTORICAL SUMMARY OF EARNED DEGREES
CONFERRED IN HIGHER EDUCATION, BY SEX,
UNITED STATES, 1959-60, 1971-72**

	1959-1960	1963-1964	1968-1969	1971-1972
BACHELOR'S AND FIRST PROFESSIONAL				
Total	392,440	498,654	764,185	930,684
Men	254,063	298,046	444,380	541,313
Women	138,377	200,608	319,805	389,371
SECOND LEVEL (MASTER'S EXCEPT FIRST PROFESSIONAL)				
Total	74,435	101,050	193,756	251,633
Men	50,898	68,969	121,531	149,550
Women	23,537	32,081	72,225	102,083
DOCTORATES				
Total	9,829	14,490	26,188	33,363
Men	8,801	12,955	22,752	28,090
Women	1,028	1,535	3,436	5,273

**PROPORTION OF DOCTORATES EARNED BY WOMEN,
BY MAJOR FIELD OF STUDY AND SUBFIELD
UNITED STATES, 1960-1969**

MAJOR FIELD OF STUDY AND SUBFIELD	Total Number of Doctorates Earned 1960-1969	Total Number of Doctorates Earned By Women, 1960-1969	Percentage of Doctorates Earned By Women 1960-1969	MAJOR FIELD OF STUDY AND SUBFIELD	Total Number of Doctorates Earned 1960-1969	Total Number of Doctorates Earned By Women, 1960-1969	Percentage of Doctorates Earned By Women 1960-1969
AGRICULTURE, total	4462	79	1.77	CITY PLANNING			
Agriculture, general	115	1	.87	(1966-1969 only) ⁷	44	2	4.55
Agronomy Field Crops	966	5	.52	COMPUTER SCIENCE and			
Animal Science	872	21	2.41	SYSTEMS ANALYSIS, total			
Dairy Science	262	4	1.53	(1964-1969 only) ⁸	158	4	2.53
Farm Management	13	0	.00	Computer Science	99	3	3.03
Fish, Game or Wildlife				Systems Analysis	22	1	4.55
Management (1961-1969) ¹	209	2	.96	Computer Science & Systems Analysis, all other fields	37	0	.00
Food Science	385	16	4.16	EDUCATION, total	26,369	5,230	19.83
Horticulture	539	11	2.40	Physical Education	1,143	313	27.38
Ornamental Horticulture	14	0	.00	Health Education	88	26	29.55
Poultry Science	211	7	3.32	Recreation	30	4	13.33
Soil Science	568	2	.35	Education of the Mentally Retarded	118	36	30.51
Agriculture				Education of the Deaf			
All Other Fields	308	10	3.25	(1964-1969 only) ⁹	6	4	66.67
ARCHITECTURE	50	4	8.00	Speech and Hearing Impaired	339	67	19.76
BIOLOGICAL SCIENCES, total	17,708	2,448	13.82	Education of the Visually Handi- capped (1964-1969 only) ¹⁰	3	1	33.33
Premedical Pre dental & Preveterinary Sciences	25	2	8.00	Education of the Emotionally Disturbed (1965-1969 only) ¹¹	24	6	25.00
Biology, general	1,949	395	20.27	Administration of Special Education (1968-1969 only) ¹²	14	4	28.57
Botany, general	1,653	186	11.25	Education of Other Exceptional Children ¹³	391	126	32.23
Zoology, general	2,262	318	14.06	Agricultural Education	228	2	.88
Anatomy & Histology	633	116	18.33	Art Education	194	52	26.80
Bacteriology, etc. ²	2,096	355	16.94	Business or Commercial Education	300	89	29.67
Biochemistry	2,695	471	17.48	Distributive Education, Retail Selling	28	6	21.43
Biophysics	429	32	7.46	Home Economics Education	124	123	99.19
Cytology	30	9	30.00	Industrial Arts Education, Nonvocational	224	1	.45
Ecology (1961-1960 only)	37	2	5.41	Music Education	548	75	13.69
Embryology	45	11	24.44	Trade or Industrial Education, Vocational	181	8	4.42
Entomology	1,097	46	4.19	Specialized Teaching Fields, All other	756	261	34.52
Genetics	672	61	9.08	Nursery or Kindergarten Education	14	12	85.71
Molecular Biology (1968-1969 only) ³	32	6	18.75	Early Childhood Education	22	20	90.91
Nutrition (1961-1969 only)	156	45	28.85	Elementary Education	1,199	459	38.28
Pathology	271	15	5.54	Secondary Education	966	154	15.94
Pharmacology	783	87	11.11	Combined Elementary and Secondary Education	21	4	19.05
Physiology	1,145	168	14.67	Adult Education	303	46	15.18
Plant Pathology	692	19	2.75	General Teaching Fields, all other	445	97	21.80
Plant Physiology	203	12	5.91	Education Administration, Supervision, Finance ¹⁴	7,242	931	12.86
Biological Sciences				Counseling and Guidance	2,357	488	20.70
All Other Fields	803	92	11.46	Rehabilitation & Counselor Training (1964-1969 only)	80	14	17.50
BUSINESS & COMMERCE, total	3046	86	2.82	History of Education, etc. (1964-1969 only) ¹⁵	438	99	20.20
Business and Commerce, general	1,372	33	2.41	Education, general	6,286	1,183	18.82
Accounting	268	18	6.72				
Finance, Banking (1967-1969 only) ⁴	53	1	1.89				
Marketing (1967-1969 only) ⁵	66	1	1.52				
Real Estate, Insurance (1967-1969 only) ⁶	2	0	.00				
Transportation (1967-1969 only)	7	0	.00				
Business and Commerce, other fields	1,278	33	2.58				

MAJOR FIELD OF STUDY AND SUBFIELD	Total Number of Doctorates Earned 1960-1969	Total Number of Doctorates Earned By Women, 1960-1969	Percentage of Doctorates Earned By Women 1960-1969	MAJOR FIELD OF STUDY AND SUBFIELD	Total Number of Doctorates Earned 1960-1969	Total Number of Doctorates Earned By Women, 1960-1969	Percentage of Doctorates Earned By Women 1960-1969
Educational, Psychology (1964-1969 only)	875	224	25.60	Child Development, Family Relations	174	87	50.00
Physical Education, Nonteaching (1964-1969 only)	36	9	25.00	Clothing and Textiles	53	52	98.11
Education, all other fields ¹⁶	1,296	286	22.07	Foods and Nutrition	134	108	80.60
ENGINEERING, total¹⁷	18,572	82	4.4	Institution Management or Administration	6	6	100.00
ENGLISH & JOURNALISM, total	6,471	1,541	23.81	Home Economics, all other fields	43	38	88.37
English and Literature	6,322	1,523	24.09	LAW	268	12	4.48
Journalism	149	18	12.08	LIBRARY SCIENCE	140	38	27.14
FINE ARTS and APPLIED ARTS, total	4,035	678	16.80	MATHEMATICAL SCIENCES, total	6,166	401	6.50
Art, General	99	18	18.18	Mathematics	5,538	348	6.46
Music, Sacred Music	1,473	199	13.51	Statistics	781	53	6.79
Speech and Dramatic Arts	1,978	314	15.87	PHILOSOPHY, total	1,701	188	11.05
Fine and Applied Arts, All other fields	485	147	30.31	Philosophy	1,520	155	10.20
FOLKLORE (1965-1969 only)	29	8	27.59	Scholastic Philosophy	181	33	18.23
FOREIGN LANGUAGES AND LITERATURE, total	4,158	1,186	28.52	PHYSICAL SCIENCES, total	25,736	1,179	4.58
Linguistics	551	133	24.14	Physical Sciences, general	93	3	3.23
Latin Classical Greek	506	128	25.30	Astronomy	421	29	6.69
French	768	311	40.49	Chemistry	12,963	884	6.82
Italian	47	17	36.17	Metallurgy	213	0	.00
Portuguese	14	3	21.43	Meteorology	245	2	.82
Spanish	668	217	32.49	Pharmaceutical Chemistry (1961-1969 only)	269	13	5.0
Philology and Literature of Romance Languages	380	93	24.47	Physics	8,415	168	2.00
German	678	171	25.22	Geology	2,143	53	2.47
Other German Languages	27	5	18.52	Geophysics	203	3	1.48
Philology and Literature of Germanic Languages	52	9	17.31	Oceanography	222	4	1.80
Arabic	5	1	20.00	Earth Sciences, all other fields ¹⁸	170	2	1.18
Chinese	14	2	14.29	Physical Sciences, all other fields	359	18	5.01
Hebrew	23	1	4.35	PSYCHOLOGY, total	9,135	1,845	20.20
Hindi, Urdu (1961-1969 only)	2	0	0.00	General Psychology	7,071	1,365	19.30
Japanese	12	2	16.67	Clinical Psychology (1961-1969 only)	651	163	25.04
Russian	116	28	24.14	Counseling and Guidance	138	33	23.91
Other Slavic Languages	68	20	29.41	Social Psychology (1961-1969 only)	309	68	22.01
Foreign Language & Literature, All other fields	227	45	19.82	Rehabilitation Counselor Training (1964-1969 only)	36	8	22.22
FORESTRY	558	1	.18	Educational Psychology (1964-1969 only)	137	37	27.01
GEOGRAPHY	663	37	5.58	Psychology, all other fields (1964-1969 only)	793	171	21.56
HEALTH PROFESSIONS, total	1,831	168	9.18	RELIGION, total	2,825	141	4.99
Hospital Administration	20	1	.50	Religious Education, Bible	368	49	13.32
Medical Technology	2	0	.00	Theology	1,417	49	3.46
Nursing, Public Health Nursing	18	17	94.44	Religion, Liberal Arts Curriculum	860	39	4.54
Optometry	16	1	6.25	Religion, all other fields	180	4	2.22
Pharmacy	563	24	4.26	SOCIAL SCIENCES, total	18,662	2,072	11.10
Physical Therapy, Physiotherapy	1	0	.00	Social Sciences, general	261	27	10.34
Public Health	418	62	14.83	American Studies, Civilization, Culture	257	41	15.95
Radiologic Technology	3	0	.00	Anthropology	942	202	21.44
Clinical Dental Services	24	4	16.77	Area or Regional Studies	384	46	11.98
Clinical Medical Services	302	31	10.26	Economics	3,898	219	5.62
Clinical Veterinary Services	250	4	1.60	History	4,943	579	11.71
Health Professions, all other fields	214	24	11.21	International Relations	425	33	7.76
HOME ECONOMICS, total	514	392	76.26	Political Science or Government	2,876	253	8.80
Home Economics, general	104	101	97.12	Sociology	2,361	403	17.07

MAJOR FIELD OF STUDY AND SUBFIELD	Total Number of Doctorates Earned 1960-1969	Total Number of Doctorates Earned By Women 1960-1969	Percentage of Doctorates Earned By Women 1960-1969
Agricultural Economics	1 165	12	1.03
Foreign Service Programs	11	1	9.09
Industrial Relations	96	4	4.17
Public Administration	283	23	8.13
Social Work, Social Administration	480	174	36.25
Social Science, all other fields	280	55	19.64
TRADE OR INDUSTRIAL TRAINING	84	0	.00
BROAD GENERAL CURRICULUMS and MISCELLANEOUS, total	726	107	14.74
Arts, General Programs	39	9	23.08
Sciences, General Programs	84	9	10.71
Arts and Sciences, General Programs	40	5	12.50
Teaching of English as a Foreign Language	27	10	37.04
All Other Fields of Study ¹⁹	536	74	13.81
TOTAL, All Fields (areas) reported	154,111	17,929	11.63

This table was originally prepared for WEAL by the
Council for University Women's Progress, University of Minnesota, June 1971

- 1 When information was available from 1961-1969 (this field was not given as a separate category in 1960-1961), proportions were computed based on information available. If the field was not listed as a separate category for more years than 1960-1961, the information was included in the residual category. Exceptions are noted.
- 2 Includes Bacteriology, Virology, Mycology, Parasitology and Microbiology.
- 3 The status of this field prior to 1968, when it was considered separately, is not clear.
- 4, 5 and 6 As in 3, the same observation applies.
- 7 and 8 These entire areas are new.
- 9, 10, 11 and 12 Subsumed under other categories in earlier years.

- 13 Includes: Special Learning Disability Education of the Crippled, Education of the Multiple Handicapped.
- 14 Includes Curriculum Instruction as well. These fields were separated for all but year 1963-1964, so it was necessary to combine them.
- 15 Includes History, Philosophy and Theory of Education.
- 16 Includes the recently listed field of Education Specialist.
- 17 A breakdown on Engineering was omitted from "Earned Degrees Conferred: Bachelor's and Higher Degrees" for the four academic years 1960 through 1964. Other sources investigated provided breakdown by field but not by sex.
- 18 Includes recent field: Earth Sciences General.
- 19 includes recent field: Interarea Fields of Study.