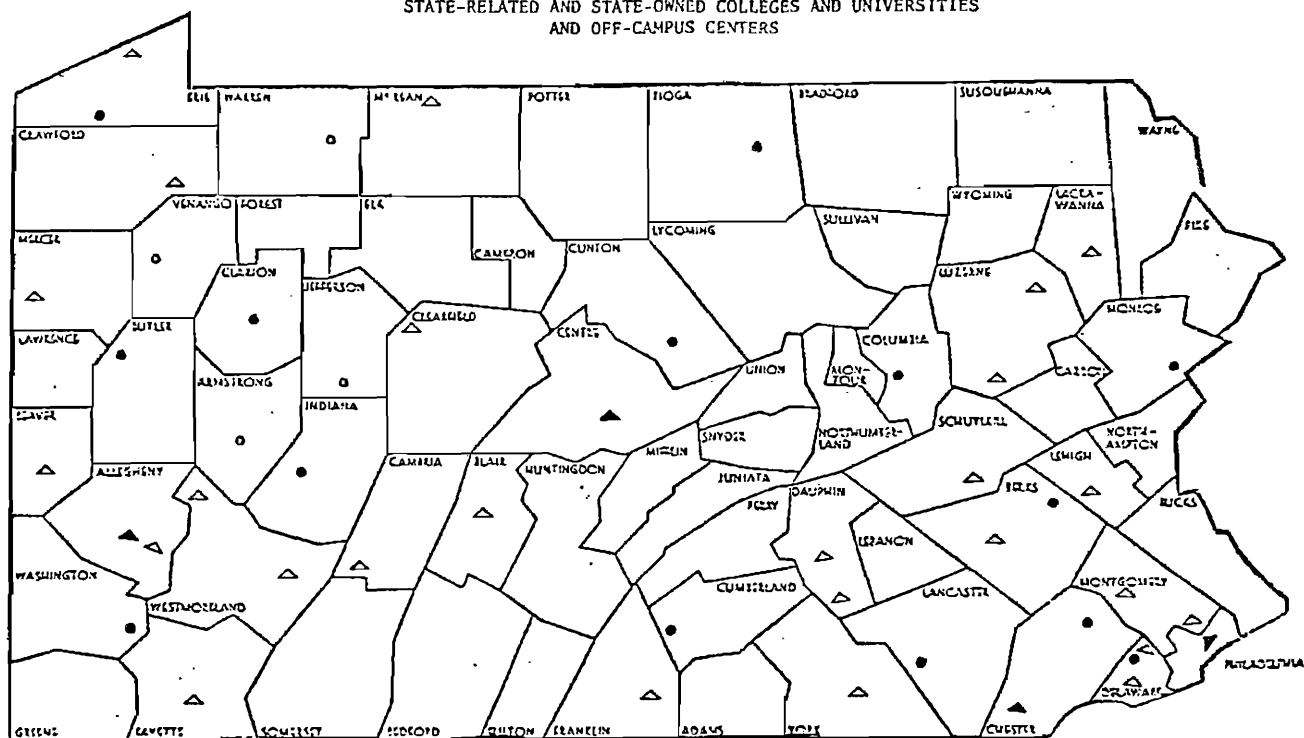


FACULTY OUTPUT AND SALARY COSTS
OF STATE-RELATED AND STATE-OWNED
COLLEGES AND UNIVERSITIES

ANALYSIS OF 1981-82 DATA
REPORTED UNDER 1981 APPROPRIATIONS ACTS
AND PUBLIC SCHOOL CODE

Staff Report of the
Joint State Government Commission of the
General Assembly of the Commonwealth of Pennsylvania
Harrisburg, Pennsylvania
February 1983

STATE-RELATED AND STATE-OWNED COLLEGES AND UNIVERSITIES
AND OFF-CAMPUS CENTERS



- ▲ State-related university
- State-owned colleges or university
- △ Branch of state-related university
- Branch of state-owned colleges or university

State-Related Universities

Penn State (Centre)
 Allentown Campus (Lehigh)
 Altoona Campus (Blair)
 Beaver Campus (Beaver)
 Behrend College (Erie)
 Berks Campus (Berks)
 Capitol Campus (Dauphin)
 Delaware Campus (Delaware)
 DuBois Campus (Clearfield)
 Fayette Campus (Fayette)
 Hazleton Campus (Luzerne)
 McKeesport Campus (Allegheny)
 Mont Alto (Franklin)
 New Kensington (Westmoreland)
 Ogontz Campus (Montgomery)
 Radnor Center for
 Graduate Studies (Delaware)
 Schuylkill Campus (Schuylkill)
 Shenango Valley Campus (Mercer)

Penn State (Centre) (Cont.)
 University Center
 at Harrisburg (Dauphin)
 Wilkes-Barre Campus (Luzerne)
 Worthington Scranton
 Campus (Lackawanna)
 York Campus (York)
 Pittsburgh (Allegheny)
 Bradford Campus (McKean)
 Greensburg Campus (Westmoreland)
 Johnstown Campus (Cambria)
 Titusville Campus (Crawford)
 Temple (Philadelphia)
 Ambler Campus (Montgomery)
 University Center
 at Harrisburg (Dauphin)
 Lincoln (Chester)

State-owned Colleges and University

Bloomsburg (Columbia)
 California (Washington)
 Cheyney (Delaware)
 Clarion (Clarion)
 Venango Campus (Venango)
 East Stroudsburg (Monroe)
 Edinboro (Erie)
 Warren Campus (Warren)
 Indiana University (Indiana)
 Armstrong Campus (Armstrong)
 Punxsutawney Campus (Jefferson)

Kutztown (Berks)
 Lock Haven (Clinton)
 Mansfield (Tioga)
 Millersville (Lancaster)
 Shippensburg (Cumberland)
 Slippery Rock (Butler)
 West Chester (Chester)

FOREWORD

The staff of the Joint State Government Commission has prepared an analysis of instructional output and salary cost for the past ten years. The first report--released in 1974--analyzed data for 1972-73 submitted by the State-related universities under reporting requirements introduced into their appropriations acts by Senator Richard A. Snyder. The State-owned colleges and university have reported for six years--since 1976-77--under similar requirements initiated in the House of Representatives.

Over the years, measures of output and cost efficiency have been developed and refined and their significance analyzed. While initially the reports covered student credit-hour output, degrees and salary costs by school and level of instruction, data on the various major fields of study (HEGIS classifications) were added in the 1982 report. These data not only provide insight into study concentrations but also expand the basis for cost analysis. This year a measure of total instructional cost per student is introduced which permits comparisons with the public institutions of other states. The value of the data included in this report is enhanced each year by the longer time span over which trends can be observed.

Under the law, the annual reporting by the four-year State-supported institutions covered in this report is intended for members of the General Assembly--specifically the appropriations and education committees of the House and Senate--to provide them with a data base for budgetary and other educational policy decisions. This research should also be of considerable value to the administrative personnel of the various institutions and to State officials concerned with the cost efficiency and effectiveness of public higher education in the Commonwealth.

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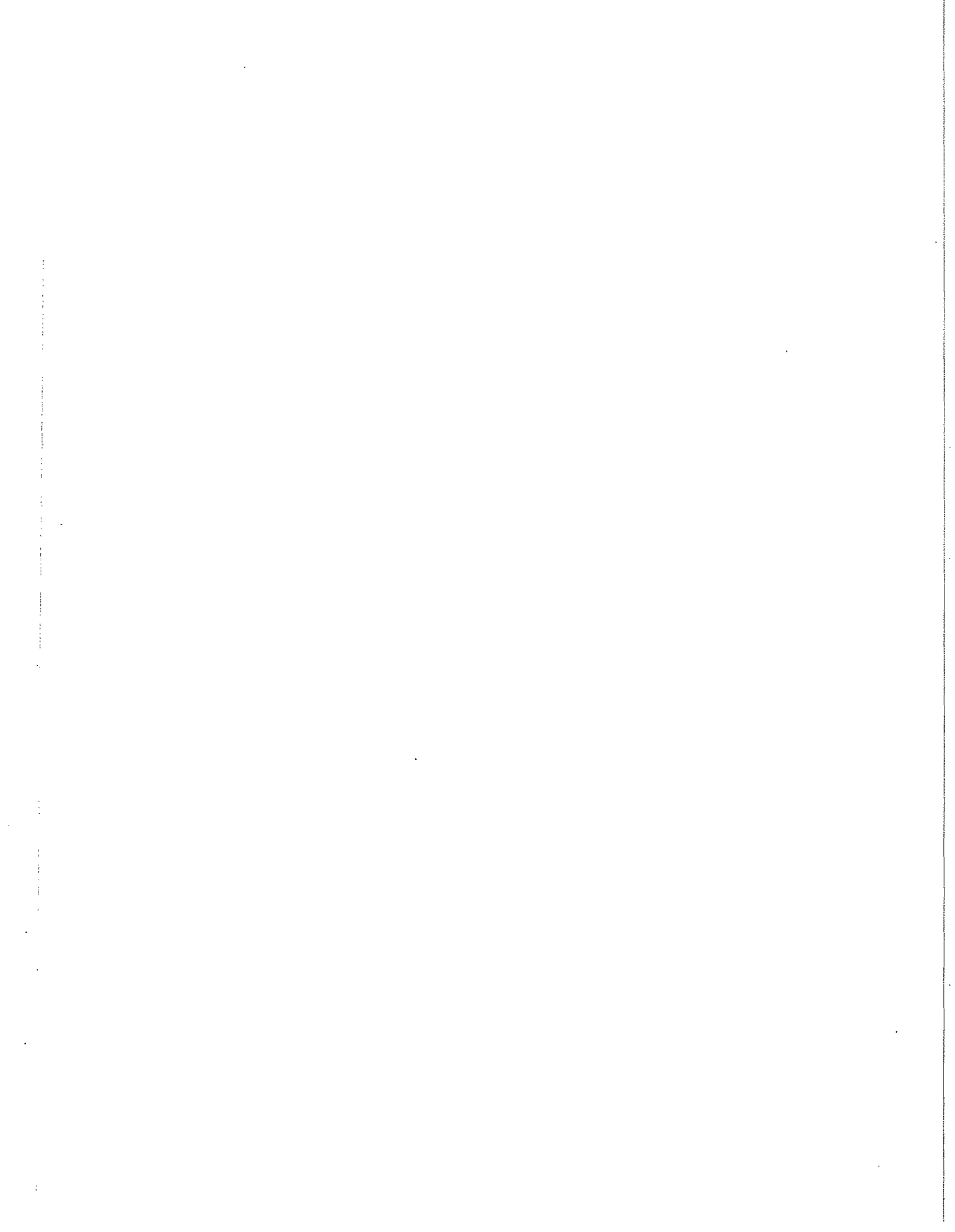
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SUMMARY

1. During the mid 1960s and early 1970s, the number of student enrollments and degrees conferred grew rapidly, reflecting the large college-age population which resulted from the post-World War II "baby boom" and generally favorable economic conditions and social attitudes toward education. Since the mid 1970s, however, growth rates in enrollments and degrees have declined due to changes in demographic, economic and social conditions. Throughout the 1980s, further enrollment decreases are forecast. Pennsylvania's experience has followed the national trend. (figures 1, 2 and 3)
2. In the Pennsylvania State-related and State-owned institutions of higher education, full-time equivalent (FTE) students totaled approximately 190,000 in 1981-82, an increase of 1 percent over the preceding year. The number of undergraduate students increased by 2 percent, while the number of graduate students decreased by 5 percent. (table 1) Evidently the decreased economic value of advanced degrees has slowed the pursuit of upper-level degree work.

3. The FTE enrollment of 114,000 at the State-related universities exceeds the FTE enrollment of 76,000 at the State-owned schools by almost 50 percent. Penn State alone accounts for 58,000 FTE students, or 30 percent of the total at the State-supported four-year institutions covered in this report. (table 1)

4. Total degrees conferred by the State-related schools increased by 1 percent and degrees conferred by the State-owned schools decreased by 1 percent over the preceding year; overall there was little change. Undergraduate and graduate degree changes followed the pattern for enrollment and credit hour changes: undergraduate degrees increased slightly and graduate degrees decreased slightly. (table 8) At the State-related schools, 33 percent of all undergraduate degrees are conferred in engineering and business and management; at the graduate level, 25 percent are in education and another 35 percent in three areas--business and management, the health professions and public affairs and services. In the State-owned schools, 49 percent of the undergraduate degrees are in two areas--education and business and management--and 59 percent of the graduate degrees are in education. (table 9 and appendix table 4A) For all of the Pennsylvania State-related and State-owned schools combined, the proportion of degrees in education is higher and the proportion in business and management lower than the national proportions for all

institutions of higher education. But the proportions of degrees conferred in these areas in Pennsylvania are changing toward the national percentages. (table 10)

5. In the State-supported schools, total student credit hours produced increased over the previous year by 3 percent in the undergraduate lower division and by only 1 percent in the undergraduate upper division. This shift from upper-division to lower-division undergraduate work continues the trend observed in Pennsylvania during the past four years. (table 2)
6. Since 1977-78, in all State-supported institutions combined, student credit hours produced per undergraduate degree conferred have increased, most substantially at the State-owned schools. (table 11) An increasing number of students are either failing or taking a significantly longer time to complete their degree work. Added support for this finding is given by the continuing shift from upper-division to lower-division student credit hour undergraduate output.
7. Total faculty workweek hours were virtually unchanged in both the State-related and State-owned schools compared with the previous year. Average classroom contact hours, however, decreased by 2 percent (.2 hour per full-time faculty member) in the State-related schools as a group and by 1 percent (.2 hour per

full-time faculty member) in the State-owned schools. The average contact hours for these two groups of schools were 9.9 and 11.7, respectively, in 1981-82. (table 12)

8. Overall, the total number of FTE instructional faculty remained constant over the past two years. Individual institutions, however, reported significant changes: Cheyney, California and Temple reported decreases of 12, 9 and 4 percent, respectively. Indiana reported the largest increase in the number of FTE instructional faculty (5 percent) over 1980-81. (table 13)

9. Average instructional salaries for ranked and nonranked FTE instructional faculty were \$22,900 at the State-related schools and \$26,200 at the State-owned schools in 1981-82. These average salaries represent 7 percent and 5 percent increases for the two groups of schools, respectively, over the previous year. The higher average salaries for the State-owned institutions reflect their higher percentages of faculty in the top ranks. (table 13)
During the period 1977-78 to 1981-82, however, average FTE instructional ranked faculty salaries at the State-related schools increased by over 34 percent and at the State-owned schools by about 31 percent, indicating a gradually diminishing gap in average salaries between the two groups.

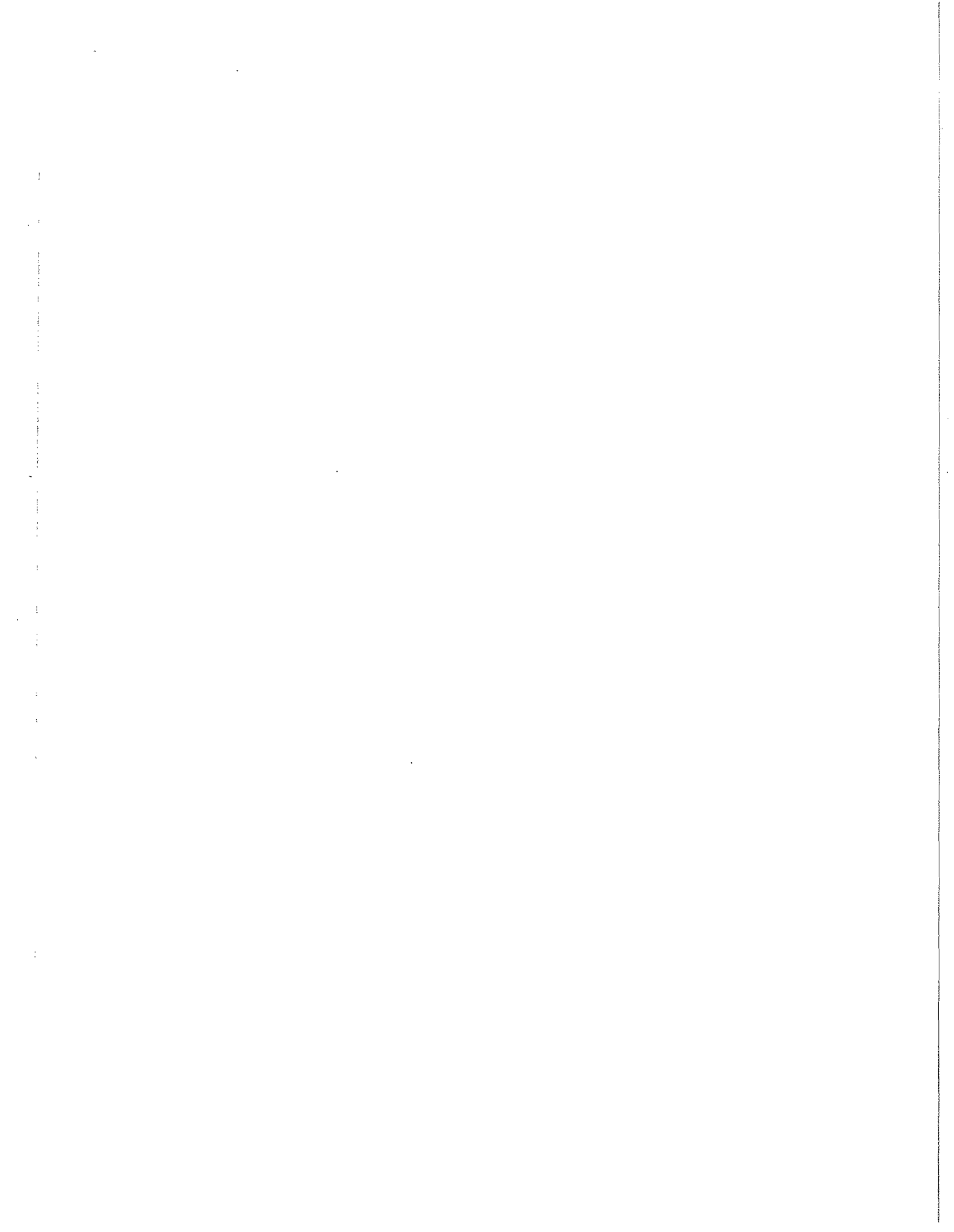
10. Average instructional faculty salary costs per student credit hour vary considerably by school, instructional level and major field of study (HEGIS classification). Average faculty salary costs in both systems are higher for the undergraduate upper division and much higher for the graduate level than for the undergraduate lower division. In general, undergraduate costs at each level decrease as the number of FTE students increases. (table 15) Among the several HEGIS classifications with the highest levels of student credit-hour output overall, the undergraduate cost of the education curriculum is the most expensive. The State-owned schools register very high upper-division costs in the physical sciences, fine and applied arts, biological sciences and foreign languages. The lowest upper-division cost for the State-owned schools is in business and management. (tables 16, 17 and appendix table 7A)
11. Average class sizes in classroom instruction have considerable impact on faculty salary costs per student credit hour produced, as shown by regression equations based on 1981-82 data. An increase in average class size of one student would result in average cost reductions per student credit hour ranging from \$0.69 in the lower division and \$2.06 in the upper division of the State-related universities to \$1.03 in the lower division and \$7.21 in the upper division of the State-owned schools. (table 18 and appendix tables 8A and 9A)

12. Although Pennsylvania's per capita income is slightly below the national average, the total instructional cost per student in Pennsylvania's publicly controlled institutions is 14 percent higher than the average for all states of \$2,816. Pennsylvania's cost per student of \$3,207 ranks eighth highest among all states. (table 21)

13. An analysis of faculty productivity (or cost efficiency) at public institutions is important because of the impact of productivity on both the student's share of instructional costs (tuition and fees) and the public's share (State appropriations). When faculty productivity increases, it may be possible to reduce both tuition and the level of public support. Tuition at Pennsylvania's State-related and State-owned institutions is much higher than at comparable public institutions in other states. With few exceptions, the ranking of states with respect to tuition charges in their public institutions correlates with the ranking of states by total instructional costs per student unit. (tables 21 and 22)

14. For 1981-82, State appropriations for instruction per FTE student ranged from \$1,710 at Penn State to \$4,980 at Cheyney. The average for the State-related group is \$2,110 and for the State-owned, \$2,850. State appropriations per student tend to increase as the number of FTE student decreases--an implicit recognition of economies of scale in the appropriation process.

Appropriations for instruction to the large State-related universities cover about one-half the total cost of instruction represented by tuition, fees and direct State appropriations. In contrast, for the State-owned system 69 percent of total instructional cost is received in the form of direct State appropriations. (table 23)



I. INSTRUCTIONAL OUTPUT

GENERAL TRENDS

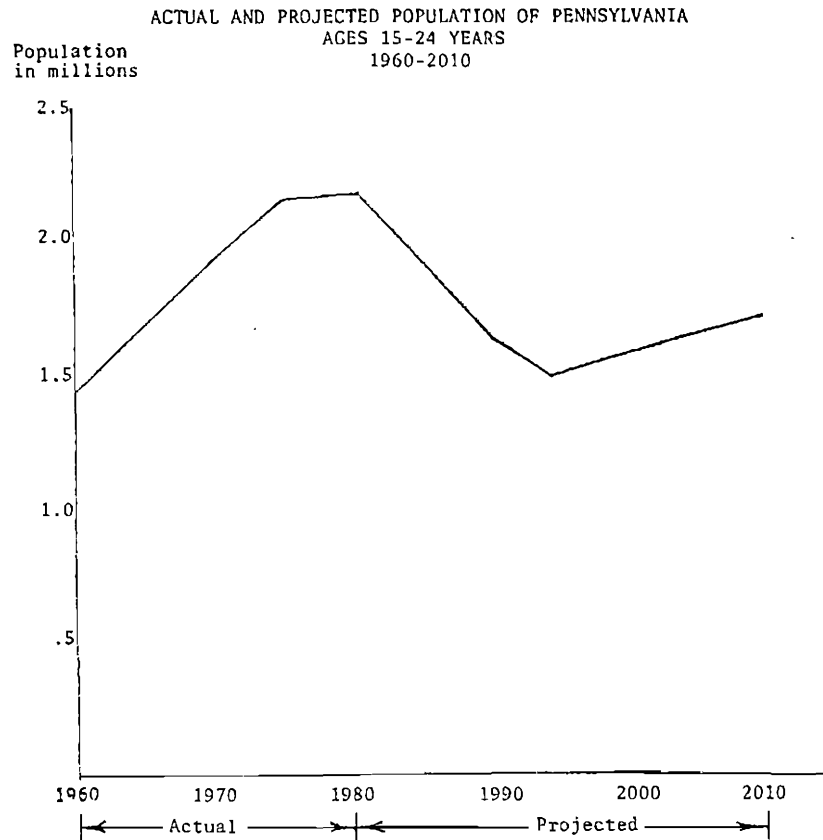
Over the past two decades, a combination of factors has greatly influenced the number of student enrollments in our nation's colleges and universities and thus the number of degrees conferred by these institutions. During the mid sixties and early seventies the large number of persons born during the "baby boom" following World War II reached normal college age. Complementing the demographics were favorable economic conditions, social attitudes and rapid changes in technology, which insured bright employment prospects for those with college degrees. The result was a rapid growth in enrollments and degrees throughout the nation, especially in publicly controlled institutions of higher education. Between 1964 and 1975, total student enrollments increased in private colleges and universities at an average annual rate of over 2 percent per year and in public institutions at an average annual rate of 13 percent. Total degrees conferred by all institutions grew at the average annual rate of over 10 percent.

The picture began to change in the mid seventies. Since 1957 birth rates have generally declined, shrinking the pool of traditional college-age candidates. Increased enrollments of women, minorities and older part-time students have made up some but not all of the difference. Economic and social conditions have again reinforced the demographics. The relatively severe recessions of 1974-75 and 1981-82 and the high rates of inflation of the late seventies and early eighties served to increase unemployment and decrease real income and technological progress, thus diminishing the job opportunities for college graduates. Growth rates in students and degrees have declined drastically since the mid seventies.

In Pennsylvania, the experience of the State-owned and State-related colleges and universities largely paralleled the national experience. Total full-time equivalent student enrollments and degrees grew rapidly and during the 1977-78 school year reached over 75,000 and 15,000, respectively, at the State-owned schools and over 112,000 and 22,000, respectively, at the State-related universities. From 1977-78 to 1981-82, growth in FTE students was negligible and degrees declined about 1 percent per year.

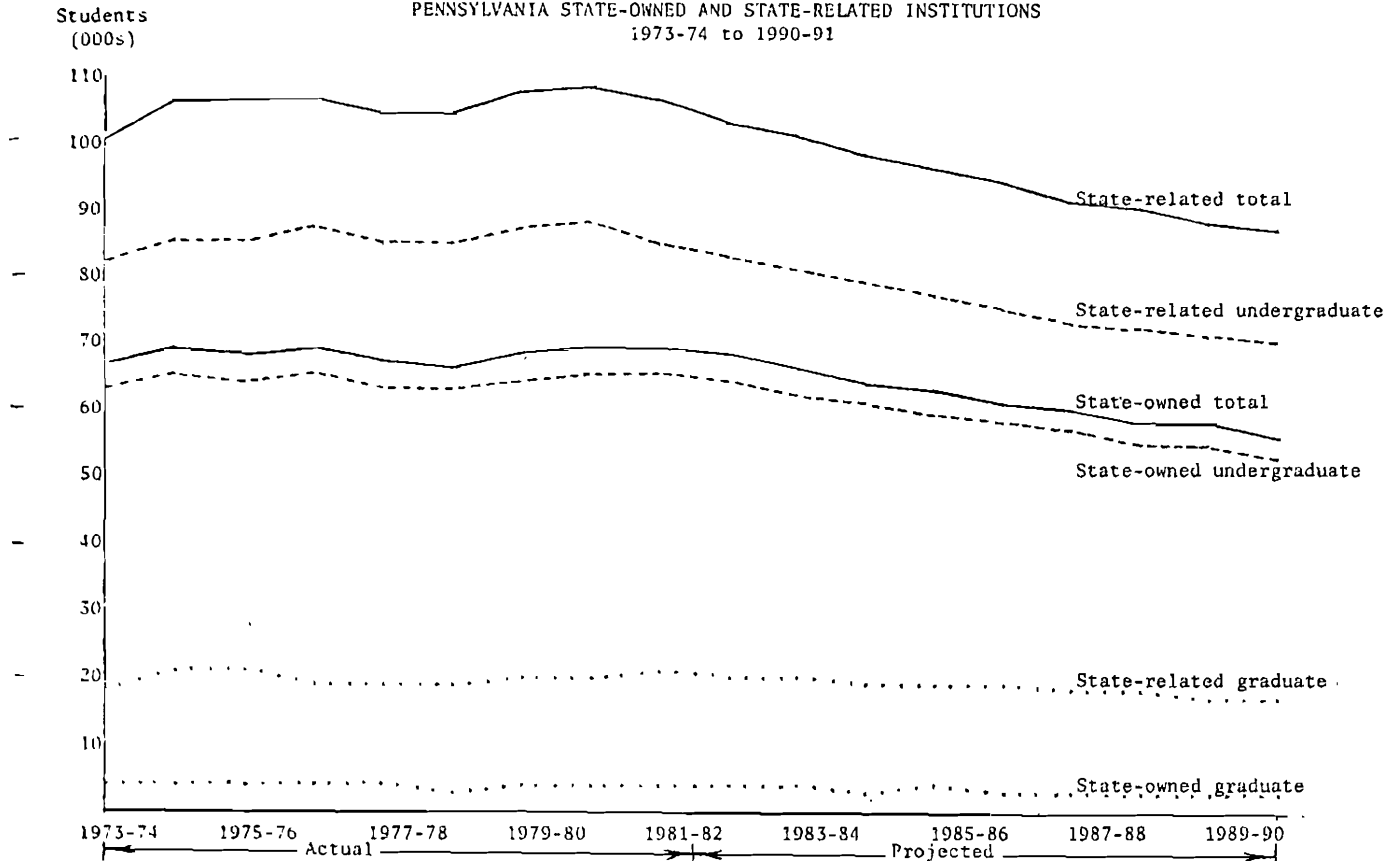
Over the coming decades, traditional college-age populations are forecast to decline through 1995, when an "echo baby boom" is expected to temporarily increase college and university enrollments. By 1995, many researchers predict a 25 percent decrease in the normal college-age population and a 15 percent decrease in total student

Figure 1



SOURCE: U.S. Department of Commerce, Bureau of the Census, Census of Population: 1960 and 1970 General Social and Economic Characteristics, Pennsylvania (Washington, D.C.: Government Printing Office).
The Pennsylvania State University Data Center, "1980 Census of Population and Housing, Summary Tape File 1-A" (Capitol Campus, Middletown, Pa.).
Pennsylvania Department of Commerce, 1981 Pennsylvania Abstract, A Statistical Fact Book, 23rd ed. (Bureau of Statistics, Research and Planning, Harrisburg, Pa.), table 1, p. 4.

Figure 2
FALL TERM FULL-TIME EQUIVALENT STUDENTS BY LEVEL
PENNSYLVANIA STATE-OWNED AND STATE-RELATED INSTITUTIONS
1973-74 to 1990-91



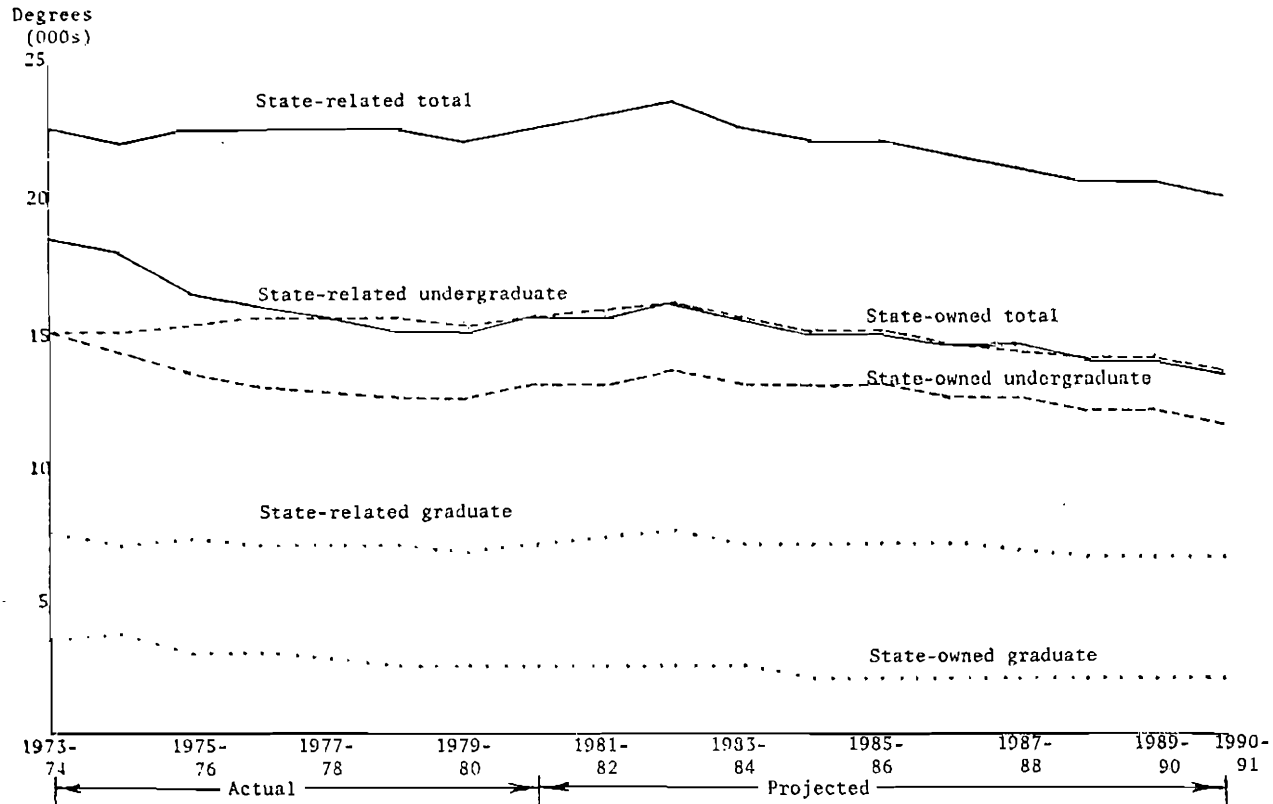
SOURCE: Actual data - Pennsylvania Department of Education, Division of Education Statistics, Our Colleges and Universities--Summer and Fall Enrollments, 1981, vol. XIX, no.1.

Projected data - "Actual and Projected Enrollment for State-Related Universities by Level of Enrollment and Enrollment Status." Data obtained from Pennsylvania Department of Education, Division of Education Statistics, Sept. 1982.

Joint State Government Commission assumptions: (1) FTE students equal full-time students plus 0.35 times part-time students; (2) unclassified students are undergraduates or graduates in the same proportion as are actual full- and part-time students.

Figure 3

DEGREES CONFERRED
PENNSYLVANIA STATE-OWNED AND STATE-RELATED INSTITUTIONS
1973-74 to 1990-91



NOTE: Undergraduate degrees include bachelor's degrees only. Graduate degrees include master's at all institutions except Lock Haven which does not have a master's program, first professional, including medical and/or doctor's at Penn State, Pittsburgh, Temple and Indiana University.

SOURCE: Pennsylvania Department of Education, Division of Education Statistics, Projections--Selected Education Statistics for Pennsylvania to 1990-91, 1981, table 9, pp. 18-19.

enrollments in institutions of higher education across the nation. In Pennsylvania, demographers and the State Department of Education project decreases by 1990 of 25, 19 and 13 percent, respectively, in student-age population, FTE students and degrees. All of the forecasts project that higher participation by nontraditional students will partially offset the losses in traditional students. The recent history of Pennsylvania's college-age populations, FTE enrollments and degrees, as well as projections of these same variables for the 1980 to 1990 period, are graphed in figures 1, 2 and 3, which clearly demonstrate the dramatic reductions expected in the output of Pennsylvania's State-supported four-year schools.

FULL-TIME EQUIVALENT STUDENTS

Table 1 presents FTE students arranged by level and school for 1981-82. Total FTE students in Pennsylvania's State-supported institutions increased in 1981-82 by a total of only 1 percent over the previous year. This represents a 2 percent increase in undergraduate students and a 5 percent decrease in graduate students. Between 1977-78 and 1981-82, aggregate growth in FTE students in Pennsylvania's State-supported schools was negligible.

Several observations about the latest one-year changes in FTE students in individual schools should be noted:

--Six schools report increases of 3 or more percent in total FTE students: California (7 percent), Clarion

Table 1

FULL-TIME EQUIVALENT STUDENTS BY LEVEL¹
 1981-82, CHANGE FROM 1980-81 AND FOUR-YEAR AVERAGE ANNUAL RATE OF CHANGE (1977-78 to 1981-82)

Institution ²	All levels				Undergraduate level				Graduate level ³			
	FTE students	One-year change	Percentage change		FTE students	One-year change	Percentage change		FTE students	One-year change	Percentage change	
			One year	Four-year average			One year	Four-year average			One year	Four-year average
State-related												
Penn State	57,873	1,879	3%	2%	53,225	1,851	4%	2%	4,648	28	1%	a
Pittsburgh	29,154	143	a	1	20,967	207	1	1	8,187	-64	-1	-1%
Temple	25,408	-1,579	-6	-2	17,008	-844	-5	-3	8,400	-735	-8	-2
Lincoln	1,525	308	25	7	1,300	302	30	3	225	6	3	92
Total	113,960	751	1	a	92,500	1,516	2	1	21,460	-765	-3	-1
State-owned												
Indiana	12,869	269	2	2	12,139	334	3	2	730	-65	-8	-2
West Chester	8,352	163	2	a	7,661	244	3	1	691	-81	-10	-3
Bloomsburg	6,314	-40	-1	a	5,944	43	1	1	370	-83	-18	-6
Millersville	5,947	118	2	1	5,349	160	3	2	598	-42	-6	-4
Edinboro ⁴	5,607	66	1	-1	5,213	118	2	a	394	-52	-12	-5
Slippery Rock	5,564	104	2	-1	5,281	129	3	-1	283	-25	-8	-5
Clarion	5,493	231	4	2	5,290	256	5	3	203	-25	-11	-5
Shippensburg	5,457	-10	a	a	4,937	17	a	1	520	-27	-5	-6
Kutztown	4,965	203	4	2	4,709	235	5	3	256	-32	-11	-5
California	4,541	315	7	a	4,193	343	9	1	348	-28	-7	-4
East Stroudsburg	4,050	-40	-1	-1	3,777	40	1	-1	273	-80	-23	-6
Lock Haven	2,575	49	2	2	2,575	49	2	2	na	na	na	na
Mansfield	2,554	103	4	-1	2,440	128	6	a	114	-25	-18	-3
Cheyney	2,080	-63	-3	-6	2,003	-75	-4	-6	77	12	19	-11
Total	76,368	1,468	2	a	71,511	2,021	3	1	4,857	-553	-10	-5
All Institutions	190,328	2,219	1	a	164,011	3,537	2	1	26,317	-1,318	-5	-2

1. Data for each year represent the summer term preceding the academic year plus the academic year. Full-time equivalent students are calculated by dividing undergraduate student credit hours by 30 and graduate student credit hours by 24.

2. Arranged in descending order with respect to total full-time equivalent students for 1981-82.

3. In addition to the master's level, the graduate level for Penn State, Pittsburgh, Temple and Indiana University also includes first professional (excluding medical) and/or doctoral levels.

4. Edinboro student credit-hour data for fiscal year 1977-78 from "State College and University Budgeting System Common Cost Accounting Reports."

a. Rounds to less than 1 percent.

na. Not applicable.

SOURCE: Reports provided by the individual institutions, 1977 to 1982.

(4 percent), Kutztown (4 percent), Lincoln (25 percent), Mansfield (4 percent) and Penn State (3 percent). Penn State's increase accounts for 85 percent of the total net increase for all State-supported schools combined.

--Two schools report decreases of 3 or more percent in total FTE students: Cheyney (3 percent) and Temple (6 percent). Temple's decrease exceeds the total net increase for all of the State-owned schools combined.

--Nearly all schools report increases in undergraduate FTE students. The exceptions are Cheyney and Temple, with 4 percent and 5 percent decreases, respectively.

--Nearly all schools report decreases in graduate FTE students. Increases registered by Cheyney (19 percent), Lincoln (3 percent) and Penn State (1 percent) are the exceptions.

Appendix table 1A shows total full-time equivalent students and total degrees conferred by level and school for the five years, 1977-78 to 1981-82.

STUDENT CREDIT HOURS

By Level and Institution

As shown in table 2, aggregate undergraduate student credit hours produced in all institutions in the lower division increased in 1981-82 by a total of 3 percent over the prior year and in the upper

Table 2

STUDENT CREDIT-HOUR PRODUCTION BY LEVEL¹
 1981-82, CHANGE FROM 1980-81 AND FOUR-YEAR AVERAGE ANNUAL RATE OF CHANGE (1977-78 to 1981-82)
 (Credit hours in 000s)

Institution ²	Undergraduate						Graduate ³		
	Lower division			Upper division			Graduate ³		
	Credit hours	Percentage change One year	Percentage change Four-year average	Credit hours	Percentage change One year	Percentage change Four-year average	Credit hours	Percentage change One year	Percentage change Four-year average
State-related									
Penn State	1,033.1	3%	3%	563.7	5%	-1%	111.5	1%	a
Pittsburgh	412.3	1	1	216.7	a	2	196.5	-1	-1%
Temple	276.8	-6	-4	233.4	-3	-2	201.6	-8	-2
Lincoln	31.9	32	5	7.1	23	-4	5.4	3	92
Total	1,754.1	1	1	1,020.9	2	a	515.0	-3	-1
State-owned									
Indiana	242.1	3	2	122.1	3	2	17.5	-8	-2
West Chester	165.7	6	3	64.1	-2	-4	16.6	-10	-3
Bloomsburg	115.2	2	2	63.1	-2	-1	8.9	-18	-6
Millersville	128.2	3	3	32.3	2	-2	14.4	-6	-4
Edinboro ⁴	111.6	4	2	44.8	-1	-4	9.5	-12	-5
Slippery Rock	118.0	4	a	40.4	-1	-3	6.8	-8	-5
Clarion	117.1	5	3	41.6	6	a	4.9	-11	-5
Shippensburg	109.2	2	1	38.9	-4	1	12.5	-5	-6
Kutztown	95.4	5	4	45.9	6	a	6.1	-11	-5
California	94.5	12	2	31.3	a	-1	8.3	-7	-4
East Stroudsburg	81.6	5	1	31.7	-7	-4	6.6	-23	-6
Lock Haven	60.6	1	4	16.7	7	-3	na	na	na
Mansfield	53.8	7	1	19.4	1	-4	2.7	-18	-3
Cheyney	44.3	-3	-6	15.8	-4	-5	1.9	19	-11
Total	1,537.3	4	2	608.1	a	-1	116.7	-10	-5
All Institutions	3,291.4	3	2	1,629.0	1	-1	631.7	-5	-2

1. Data for each year represent the summer term preceding the academic year plus the academic year.

2. Arranged in descending order with respect to total full-time equivalent students for 1981-82.

3. In addition to the master's level, the graduate level for Penn State, Pittsburgh, Temple and Indiana University also includes first professional (excluding medical) and/or doctoral levels.

4. Edinboro student credit-hour data for fiscal year 1977-78 from "State College and University Budgeting System Common Cost Accounting Reports."

a. Rounds to less than 1 percent.

na. Not applicable.

SOURCE: Reports provided by the individual institutions, 1977 to 1982.

division by a total of 1 percent. During the same time, total graduate student credit hours decreased by a total of 5 percent. These changes in student credit-hour production reflect the one-year changes in total FTE students shown in table 1.¹

Noteworthy is the relative growth of the production of total lower- versus upper-division and graduate student credit hours. As in 1980-81, total lower-division credit hours produced in 1981-82 increased faster than either total upper-division credit hours or total graduate credit hours. Over the past four years, lower-division output increased at the average annual rate of 2 percent. Upper-division and graduate student credit hours, on the other hand, actually decreased in the aggregate; upper-division output decreased at an average annual rate of 1 percent, and graduate output decreased at an average annual rate of 2 percent. The percentage of lower-division production at the State-owned schools increased from 69 percent of total undergraduate production in 1977-78 to 72 percent in 1981-82.² The output trends at the lower- and upper-division levels lead to the conclusion that while a larger number of students are entering institutions of higher learning fewer are progressing beyond the introductory level.

¹FTE students are computed by dividing undergraduate student credit hours by 30 and graduate student credit hours by 24.

²See faculty output report of March 1979, p. 6.

Summer Term

Table 3 illustrates two related points. First, total undergraduate student credit hours produced in the 1981 summer semester are approximately the same as the total number produced during the previous summer semester, while total summer graduate hours produced decreased by 11 percent. Overall, total undergraduate hours produced in the summer comprise only 7 percent of the total undergraduate hours produced in the full year, and total graduate hours produced in the summer comprise 22 percent of the total graduate hours produced in the full year.

Second, percentages are approximately the same for summer undergraduate credit hours in both groups of institutions but a much larger percentage of graduate credit hours (41 percent) are produced in the summer in the State-owned system than in the State-related group (18 percent). This difference at the graduate level in the two groups is significant because summer classes are generally much smaller than regular term classes, tending to lead to higher instructional salary costs per credit hour produced in the summer. The effect of class size on average faculty cost per student credit hour is discussed later.

Undergraduate and Graduate Proportions

Table 4, which details the mix of student credit hours among levels by institution, indicates that, in the State-related group, Pittsburgh and Temple produce about one-fourth of their student credit

Table 3

SUMMER STUDENT CREDIT-HOUR PRODUCTION
1981

Institution ¹	Percentage change from 1980 and four-year average annual rate of change, 1977-1981 (Credit hours in 000s)									1981 summer term as percentage of total year 1981-82 by ³ level of instruction ³		
	Credit hours	Total Percentage change		Undergraduate Percentage change			Graduate ⁴ Percentage change			Total	Under- graduate	Graduate
		One year	Four-year average	Credit hours	One year	Four-year average	Credit hours	One year	Four-year average			
State-related												
Penn State	94.8	1%	-1%	73.9	4%	1%	20.9	-7%	-6%	6%	5%	19%
Pittsburgh	120.8	1	-1	74.1	3	-2	46.7	-3	1	15	12	24
Temple	63.0	-18	-5	37.2	-19	-7	25.8	-17	-2	9	7	13
Lincoln	5.9	15	24 ^a	5.2	16	21 ^a	.7	9	62 ^a	13	13	13
Total	284.5	-4	-2	190.4	-2	-2	94.1	-8	-1	9	7	18
State-owned												
Indiana	39.5	-3	6	33.4	b	8	6.1	-18	-3	10	9	35
West Chester	23.6	-10	-2	17.7	-6	2	5.9	-20	-8	10	8	36
Bloomsburg	18.6	-6	1	14.6	2	6	4.0	-25	-9	10	8	45
Millersville	23.2	-5	b	14.1	-6	-1	9.1	-4	b	13	9	64
Edinboro	15.1	-4	c	11.5	0	c	3.6	-15	c	9	7	38
Slippery Rock	11.5	-3	-5	9.3	a	-4	2.2	-16	-9	7	6	32
Clarion	12.7	11	16	11.0	16	23	1.7	-15	-5	8	7	34
Shippensburg	15.3	-7	b	10.3	-6	6	5.0	-9	-6	10	7	40
Kutztown	8.6	1	-3	6.5	11	1	2.1	-21	-9	6	5	34
California	16.9	23	2	13.5	26	4	3.4	13	-3	13	11	42
East Stroudsburg	13.7	-10	-3	10.1	2	1	3.6	-32	-9	11	9	55
Lock Haven	3.0	12	-9	3.0	12	-9	na	na	na	4	4	na
Mansfield	5.5	-2	-1	4.7	10	2	.8	-40	-11	7	6	31
Cheyney	2.8	-27	-13	2.5	-25	-11	.3	-45	-19	5	4	15
Total	210.0	-3	2	162.2	2	5	47.8	-16	-5	9	8	41
All institutions	494.5	-3	b	352.6	b	1	141.9	-11	-3	9	7	22

1. Arranged in descending order with respect to total full-time equivalent students for 1981-82.

2. In addition to the master's level, the graduate level for Penn State, Pittsburgh, Temple and Indiana University also includes first professional (excluding medical) and/or doctoral levels.

3. Data represent the summer term preceding the academic year plus the academic year.

a. Three-year average.

b. Rounds to less than 1 percent.

c. Edinboro student credit-hour data for fiscal year 1977-78 from "State College and University Budgeting System Common Cost Accounting Reports." Data from this source are not available by terms.

na. Not applicable.

SOURCE: Reports provided by the individual institutions, 1977 to 1982.

Table 4
STUDENT CREDIT-HOUR PRODUCTION
1981-82, PERCENTAGE DISTRIBUTION BY LEVEL¹

Institution ²	Total year				
	Under graduate			Graduate	
	Total under graduate	Lower-division	Upper-division	Master's and first professional	Doctor's
State-related					
Penn State	93%	60%	33%	3%	4%
Pittsburgh	76	50	26	20	4
Temple	72	39	33	27	1
Lincoln	88	72	16	12	na
Total	84	53	31	13	3
State-owned					
Indiana	95	63	32	5	a
West Chester	93	67	26	7	na
Bloomsburg	95	61	34	5	na
Millersville	92	73	19	8	na
Edinboro	94	67	27	6	na
Slippery Rock	96	72	24	4	na
Clarion	97	72	25	3	na
Shippensburg	92	68	24	8	na
Kutztown	96	65	31	4	na
California	94	71	23	6	na
East Stroudsburg	95	68	27	5	na
Lock Haven	100	78	22	na	na
Mansfield	97	71	26	3	na
Cheyney	97	71	26	3	na
Total	95	68	27	5	na
All Institutions	88	59	29	10	2

1. Data for each year represent the summer term preceding the academic year plus the academic year.

2. Arranged in descending order with respect to total full-time equivalent students for 1981-82.

a. Included in master's level.

na. Not applicable.

SOURCE: Reports provided by the individual institutions, 1982.

hours at the graduate level while Penn State produces less than 10 percent at this level. These proportions are the same as in 1977-78. The graduate percentage includes the large first professional programs in law, dentistry and pharmacology at Pittsburgh and Temple. In contrast, the State-owned schools, with smaller and more limited graduate programs, overall produce 95 percent of their credit hours at the undergraduate level and 5 percent at the graduate level. In 1977-78, over 6 percent were produced at the graduate level. No State-owned school except Indiana offers doctoral work and none has first professional programs.

Appendix table 2A shows total year and summer student credit hours produced by level and school for each of the five years between 1977-78 and 1981-82.

By HEGIS Classification

Table 5 presents undergraduate student credit hours for the year 1981-82 as well as the percentages in the undergraduate upper division for each HEGIS category;³ table 6 gives the same information for the individual graduate programs of the three large State-related universities and the combined graduate programs of the remaining State-supported schools.

³HEGIS is an acronym for the Higher Education General Information Survey, which is based on program areas and made by the U.S. Department of Education's National Center for Education Statistics. Since 1981, Pennsylvania's State-supported schools have been required to report enrollment, credit-hour and salary data by HEGIS.

Table 5

UNDERGRADUATE STUDENT CREDIT-HOUR PRODUCTION BY HEGIS CLASSIFICATION
1981-82, PERCENTAGE OF TOTAL, AND PERCENTAGE AT UPPER DIVISION
(Credit hours in 000s)

HEGIS classification ¹	All institutions			State-related institutions			State-owned institutions		
	Number	Percentage of total	Percentage at upper division	Number	Percentage of total	Percentage at upper division	Number	Percentage of total	Percentage at upper division
Social sciences	698	14%	25%	336	12%	31%	362	17%	20%
Letters	656	13	18	358	13	23	298	14	11
Education	535	11	50	171	6	45	364	17	53
Business and management	509	10	57	264	10	61	245	11	53
Mathematics	430	9	10	253	9	11	177	8	8
Physical sciences	367	7	16	240	9	18	127	6	11
Fine and applied arts	275	6	28	141	5	36	134	6	20
Psychology	224	5	29	111	4	29	113	5	28
Engineering	216	4	70	216	8	70	--	--	--
Biological sciences	215	4	26	112	4	34	103	5	18
Foreign languages	146	3	17	88	3	21	58	3	10
Computer and information sciences	111	2	37	77	3	43	34	2	22
Public affairs and services	98	2	59	59	2	69	39	2	44
Health professions	88	2	78	57	2	81	31	1	73
Communications	58	1	61	43	2	64	15	1	52
Home economics	52	1	57	34	1	58	18	1	57
Interdisciplinary studies	33	1	35	25	1	45	8	a	5
Agriculture and natural resources	28	1	95	28	1	95	--	--	--
Military science	15	a	29	6	a	40	9	a	22
Architecture and environmental design	14	a	50	14	a	50	--	--	--
Area studies	8	a	57	8	a	57	--	--	--
Law	6	a	48	6	a	48	--	--	--
Library science	4	a	54	1	a	31	3	a	56
Other	134	3	8	127	5	8	7	a	9
Total ²	4,920	100	33	2,775	100	37	2,145	100	28

1. Arranged in descending order with respect to total undergraduate student credit-hour production for 1981-82.

2. Because of rounding, percentage totals may not equal 100.

a. Rounds to less than 1 percent.

SOURCE: Reports provided by the individual institutions, 1982.

As shown in table 5, for all institutions combined large proportions of the upper-division undergraduate credit hours are produced in the fields of education, business and management and engineering. The emphasis on these particular fields, especially in the upper divisions, reflects both the missions of the institutions and recent trends toward the selection by students of majors more closely related to current and expected job opportunities. The State-owned schools do not have engineering programs and concentrate more heavily on the education curriculum than do the State-related universities.

For all schools, HEGIS classifications with relatively high levels of total output but with less than 20 percent of the credit hours earned at the upper-division level include letters (18 percent at the upper division), mathematics (10 percent) and physical sciences (16 percent). Despite the increasing international concerns of the U.S., student demand for foreign languages is low. Foreign language credit hours represent only 3 percent of total instructional output; 21 percent of the foreign language credits are in the upper-division level at the State-related universities and 10 percent are in the upper-division level at the State-owned schools.

Table 6 shows that the distribution of graduate student credit hours also reflects largely the missions of the various institutions and job market conditions. Pittsburgh and Temple have large graduate programs in the health professions, education, business and management and law, whereas the predominate emphasis in the State-owned schools

Table 6

GRADUATE STUDENT CREDIT-HOUR PRODUCTION BY HEGIS CLASSIFICATION¹
1981-82, AND PERCENTAGE OF TOTAL
(Credit hours in 000s)

HEGIS classification ²	All Institutions		Temple		Pittsburgh		Penn State		State-owned and Lincoln ³	
	Number	Percentage of total	Number	Percentage of total	Number	Percentage of total	Number	Percentage of total	Number	Percentage of total
Education	167	26%	39	19%	38	19%	21	19%	69	57%
Health professions	105	17	63	31	40	20	1	1	1	1
Business and management	70	12	26	13	26	13	11	10	7	6
Law	51	8	32	16	19	10	--	--	--	--
Public affairs and services	40	6	8	4	19	10	6	5	7	6
Engineering	32	5	a	a	15	8	17	15	--	--
Physical sciences	27	4	2	1	7	4	16	14	2	2
Social sciences	22	4	5	2	5	3	6	5	6	5
Letters	21	3	6	3	4	2	6	5	5	4
Psychology	20	3	3	1	3	2	4	4	10	8
Fine and applied arts	15	2	7	3	2	1	2	2	4	3
Computer and Information sciences	13	2	4	2	7	4	2	2	a	a
Biological sciences	12	2	1	1	3	2	5	4	3	2
Mathematics	10	2	1	1	2	1	4	4	3	2
Library science	6	1	--	--	4	2	a	a	2	2
Foreign languages	6	1	1	1	2	1	2	2	1	1
Agriculture and natural resources	4	1	--	--	--	--	4	4	--	--
Communications	4	1	3	1	--	--	a	a	1	1
Home economics	3	a	--	--	--	--	2	2	1	1
Interdisciplinary studies	3	a	1	1	--	--	2	2	a	a
Architecture and environmental design	1	a	--	--	--	--	1	1	--	--
Area studies	a	a	a	a	--	--	a	a	--	--
Other	a	a	a	a	a	a	a	a	--	--
Total ⁴	632	100	202	100	196	100	112	100	122	100

1. Graduate production includes master's at all institutions except Lock Haven, which does not have a master's program, first professional (excluding medical) and doctor's at Pittsburgh and Temple and doctor's at Penn State and Indiana University.

2. Arranged in descending order with respect to total graduate student credit-hour production for 1981-82.

3. All of Lincoln's graduate credit hours (5,000) are produced in public affairs and services.

4. Because of rounding, percentage totals may not equal 100.

a. Rounds to less than 1,000 student credit hours or less than 1 percent of total production.

SOURCE: Reports provided by the individual institutions, 1982.

continues to be in the education curriculum. The large number of HEGIS categories with small--and therefore costly--graduate credit-hour output indicates a wide diversity of educational opportunities for students in the various schools.

Table 7 presents undergraduate student credit hours distributed by selected HEGIS classifications for 1981-82; the percentages are relative to the total number of undergraduate credit hours for each school shown in the last line of the table. This table brings out differences in program emphasis among the schools.

Appendix table 3A shows total 1981-82 student credit hours produced by school, selected HEGIS classifications and level.

DEGREES

By Level and Institution

Table 8 presents degrees conferred by level and school. The total number of degrees granted by all schools at all levels in 1981-82 increased slightly over 1980-81; since 1977-78, the total number of degrees conferred has decreased by an average of 1 percent per year. The State-related schools show an aggregate one-year increase in degrees at the undergraduate level and virtually no change at the graduate level; undergraduate degrees increased by 4 percent at Penn State and decreased by 1 and 2 percent, respectively, at Pittsburgh and Temple. Total graduate degrees granted by the State-owned schools decreased by 4 percent.

Table 7

UNDERGRADUATE STUDENT CREDIT-HOUR PRODUCTION BY SELECTED HEGIS CLASSIFICATION
1981-82, PERCENTAGE OF TOTAL

HEGIS ¹ classification	State-related ²				State-owned ²													
	Penn State	Pittsburgh	Temple	Lincoln	Indiana	West Chester	Bloomsburg	Millersville	Edinboro	Slippery Rock	Clarion	Shippensburg	Kutztown	California	East Stroudsburg	Lock Haven	Mansfield	Cheyney
Social sciences	11%	17%	10%	15%	20%	13%	19%	17%	10%	15%	14%	21%	20%	14%	21%	22%	14%	16%
Letters	13	12	14	19	12	16	13	13	17	18	11	11	13	14	13	18	17	12
Education	6	4	9	14	12	18	17	17	14	18	12	10	24	22	27	25	23	19
Business and management	10	4	17	9	16	6	17	5	9	7	27	21	9	11	1	0	0	12
Mathematics	9	10	6	14	6	10	7	8	12	6	7	10	7	13	5	12	8	11
Physical sciences	10	10	4	7	5	7	6	10	9	6	3	4	4	4	8	4	5	5
Fine and applied arts	4	5	8	5	6	9	5	9	12	5	7	4	5	4	6	6	0	3
Psychology	3	7	4	4	4	4	6	5	7	4	5	6	7	6	4	7	6	7
Engineering	8	9	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Biological sciences	5	4	2	7	5	4	5	5	4	5	4	5	5	5	7	3	6	4
Foreign languages	3	4	2	6	4	3	2	4	2	2	1	1	3	2	2	3	2	2
Computer and information sciences	2	4	2	0	2	0	0	4	0	2	2	0	a	0	3	0	11	1
Public affairs and services	2	1	4	0	0	8	0	1	0	6	0	3	0	1	1	0	2	0
Health professions	1	5	2	0	2	2	3	1	3	5	0	0	a	1	1	0	0	0
All others	13	4	11	0	6	a	a	1	1	1	7	4	3	4	1	a	6	8
Total undergraduate production (000s)	1,597	629	510	39	364	230	178	160	156	158	159	148	141	126	113	77	73	60

1. Arranged in descending order with respect to total undergraduate student credit-hour production for 1981-82.
2. Institutions arranged in descending order with respect to total full-time equivalent students for 1981-82.

SOURCE: Reports provided by the individual institutions, 1982.

Table 8

DEGREES BY LEVEL¹
 1981-82, CHANGE FROM 1980-81 AND FOUR-YEAR AVERAGE ANNUAL RATE OF CHANGE (1977-78 to 1981-82)

Institution ²	All degrees				Undergraduate degrees				Graduate degrees			
	Degrees	One-year change	Percentage change		Degrees	One-year change	Percentage change		Degrees	One-year change	Percentage change	
			One year	Four-year average			One year	Four-year average			One year	Four-year average
State-related												
Penn State	10,088	322	3%	a	8,385	361	4%	a	1,703	-39	-2%	-1%
Pittsburgh	6,153	-3	a	-1%	3,458	-27	-1	-1%	2,695	24	1	-1
Temple	5,193	-23	a	-2	3,028	-73	-2	-2	2,165	50	2	a
Lincoln	227	-22	-9	12	155	7	5	0	72	-29	-29	37 ^b
Total	21,661	274	1	a	15,026	268	2	-1	6,635	6	a	a
State-owned												
Indiana	2,570	-87	-3	1	2,139	-78	-4	1	431	-9	-2	4
West Chester	1,360	0	0	-3	1,110	47	4	-2	250	-47	-16	-8
Bloomsburg	1,367	40	3	2	1,147	59	5	2	220	-19	-8	-1
Millersville	1,139	54	5	a	960	43	5	1	179	11	7	-6
Edinboro	951	-61	-6	-8	763	-34	-4	-7	188	-27	-13	-10
Slippery Rock	1,066	3	a	-2	931	-24	-3	-2	135	27	25	-1
Clarion	981	20	2	-2	859	25	3	-1	122	-5	-4	-7
Shippensburg	1,353	-31	-2	1	1,025	8	1	4	328	-39	-11	-5
Kutztown	869	34	4	-1	733	25	4	a	136	9	7	-5
California	842	17	2	-5	687	23	3	-4	155	-6	-5	-6
East Stroudsburg	710	-57	-7	-4	626	-51	-8	-5	84	-6	-7	4
Lock Haven	393	-8	-2	-4	393	-8	-2	-4	na	na	na	na
Mansfield	440	-22	-5	-5	381	-19	-5	-7	59	-3	-4	23
Cheyney	340	-29	-8	-5	308	-35	-10	-5	32	6	23	-4
Total	14,381	-127	-1	-2	12,062	-19	a	-2	2,319	-108	-4	-4
All institutions	36,042	147	a	-1	27,088	249	1	-1	8,954	-102	-1	-1

1. Undergraduate degrees include only bachelor's at all institutions. Graduate degrees include master's at all institutions except Lock Haven which does not have a master's program, first professional (excluding medical) and doctor's at Pittsburgh and Temple and doctor's at Penn State and Indiana University.

2. Arranged in descending order with respect to total full-time equivalent students for 1981-82.

a. Rounds to less than 1 percent.

b. Three-year annual average.

na. Not applicable.

SOURCE: Reports provided by the individual institutions, 1982.

The change in degrees conferred varies widely among the institutions. Schools reporting overall one-year increases in degrees of 3 percent or more include Bloomsburg (3 percent), Kutztown (4 percent), Millersville (5 percent) and Penn State (3 percent). Those reporting overall decreases of 3 percent or more are Cheyney (8 percent), East Stroudsburg (7 percent), Edinboro (6 percent), Indiana (3 percent), Lincoln (9 percent) and Mansfield (5 percent). The four-year decline in total degrees is shared in some measure by nearly all the schools; the exceptions are Penn State, Bloomsburg, Indiana, Lincoln and Shippensburg, all of which have average annual four-year increases in total degrees.

By HEGIS Classification

Table 9 gives the number and HEGIS distributions of degrees granted by type of institution and level for 1981-82 and table 10, the percentage distributions of degrees granted by type of degree, in total for the Pennsylvania State-supported schools and in total for all U.S. institutions.

Table 9 shows that in the State-related schools, 33 percent of all undergraduate degrees are in engineering and business and management; at the graduate level, 25 percent are in education and 35 percent in business and management, the health professions and public affairs and services. In the State-owned schools, 49 percent of the undergraduate degrees are in education and business and management and 59 percent of the graduate degrees are in education.

Table 9
DEGREES
NUMBER AND PERCENTAGE DISTRIBUTION OF ALL DEGREES CONFERRED BY LEVEL AND HEGIS CLASSIFICATION¹
1981-82

HEGIS classification ²	All institutions				State-related institutions				State-owned institutions			
	Undergraduate		Graduate		Undergraduate		Graduate		Undergraduate		Graduate	
	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage
Business and management	5,195	19%	1,033	11%	2,628	17%	855	13%	2,567	21%	178	8%
Education	4,367	16	3,053	34	1,049	7	1,684	25	3,318	28	1,369	59
Engineering	2,378	9	460	5	2,335	16	460	7	43	a	--	--
Social sciences	2,246	8	289	3	1,197	8	183	3	1,049	9	106	5
Health professions	1,674	6	797	9	1,068	7	734	11	606	5	63	3
Public affairs and services	1,666	6	806	9	863	6	738	11	803	7	68	3
Letters	1,130	4	247	3	710	5	152	2	420	3	95	4
Communications	1,056	4	80	1	659	4	32	a	397	3	48	2
Psychology	1,049	4	240	3	572	4	117	2	477	4	123	5
Computer and information sciences	1,015	4	222	2	539	4	215	3	476	4	7	a
Biological sciences	909	3	181	2	541	4	111	2	368	3	70	3
Physical sciences	876	3	270	3	574	4	238	4	302	3	32	1
Fine and applied arts	836	3	175	2	384	3	143	2	452	4	32	1
Home economics	722	3	34	a	457	3	32	a	265	2	2	a
Agriculture and natural resources	683	3	76	1	683	5	76	1	--	--	--	--
Interdisciplinary studies	562	2	89	1	369	2	62	1	193	2	27	1
Mathematics	264	1	99	1	120	1	64	1	144	1	35	2
Foreign languages	216	1	61	1	119	1	48	1	97	1	13	1
Architecture and environmental design	114	a	27	a	109	1	27	a	5	a	--	--
Area studies	30	a	12	a	22	a	12	a	8	a	--	--
Library science	27	a	172	2	--	--	127	2	27	a	45	2
Law	19	a	564	6	19	a	564	8	--	--	--	--
Total ³	27,034	100	8,987	100	15,017	100	6,674	100	12,017	100	2,313	100

1. Undergraduate degrees include only bachelor's at all institutions. Graduate degrees include master's at all institutions except Lock Haven which does not have a master's program, first professional (excluding medical) and doctor's at Pittsburgh and Temple and doctor's at Penn State and Indiana University.

2. Arranged in descending order with respect to total undergraduate degrees for 1981-82.

3. Because of rounding, totals may not equal 100.

a. Rounds to less than 1 percent.

SOURCE: Data obtained from Pennsylvania Department of Education, Division of Education Statistics, Bureau of Information Systems, December 1982.

Table 10 shows two things. First, in the Pennsylvania schools, the relative proportions of bachelor's and master's degrees granted in business and management are lower, and in education higher, than the national proportions for these HEGIS areas; during the last three years, however, the percentages of degrees in these areas have moved towards the national percentages. In the same areas, the relative number of doctor's degrees are above the national averages and have held steady over the past three years. Second, the remaining HEGIS distributions in Pennsylvania and the nation are not too dissimilar. Perhaps the most noticeable differences are in the social sciences and public affairs and services where Pennsylvania degrees are, respectively, lower and higher than the national percentages.

About 1 percent of all bachelor's degrees conferred in the State-supported institutions in Pennsylvania as well as nationally are in mathematics (264 degrees in Pennsylvania) and 3 percent in physical science (876 in Pennsylvania). The Pennsylvania institutions conferred only 99 graduate degrees in 1981-82 in mathematics and 270 in physical sciences. Officials of the American Physical Society term the lack of interest in science and math among students and the lack of well-qualified teachers of these subjects a "national scandal."⁴

Appendix table 4A shows the degrees conferred in 1980-81 by school, major field of study and level.

⁴"Physicists Deplore U.S. Lack of Science, Math Teachers," (Harrisburg) The Patriot, January 25, 1983.

Table 10

PERCENTAGE DISTRIBUTION OF DEGREES BY HEGIS CLASSIFICATION
 PENNSYLVANIA STATE-RELATED AND STATE-OWNED INSTITUTIONS (1979-80 to 1981-82) AND ALL U.S. INSTITUTIONS (1979-80)

HEGIS classification ¹	Bachelor's degrees				Master's degrees				First professional degrees ²				Doctor's degrees			
	PA	PA	PA	U.S.	PA	PA	PA	U.S.	PA	PA	PA	U.S.	PA	PA	PA	U.S.
	1981- 82	1980- 81	1979- 80	1979- 80	1981- 82	1980- 81	1979- 80	1979- 80	1981- 82	1980- 81	1979- 80	1979- 80	1981- 82	1980- 81	1979- 80	1979- 80
Business and management	19%	18%	17%	20%	14%	13%	11%	19%	--	--	--	--	3%	2%	3%	2%
Education	16	18	20	13	37	40	42	35	--	--	--	--	40	39	40	24
Engineering	9	9	8	7	5	5	5	5	--	--	--	--	6	5	5	8
Social sciences	8	9	9	11	3	3	3	4	--	--	--	--	6	7	7	10
Health professions	6	6	6	7	6	6	7	5	57%	56%	58%	39%	7	4	5	2
Public affairs and services	6	7	7	4	11	11	10	7	--	--	--	--	3	3	2	1
Letters	4	4	4	4	3	3	2	3	--	--	--	--	6	8	8	6
Communications	4	4	3	3	1	1	1	1	--	--	--	--	a	a	a	1
Psychology	4	4	4	5	3	2	2	3	--	--	--	--	5	5	4	8
Computer and information sciences	4	3	2	1	3	2	2	1	--	--	--	--	1	1	a	1
Biological sciences	3	4	4	5	2	2	2	2	--	--	--	--	5	6	8	11
Physical sciences	3	3	3	3	2	2	2	2	--	--	--	--	10	10	9	9
Fine and applied arts	3	3	3	4	2	2	2	3	--	--	--	--	1	1	1	2
Home economics	3	3	3	2	a	a	a	1	--	--	--	--	2	2	1	1
Agriculture and natural resources	3	2	3	2	1	1	1	1	--	--	--	--	1	2	2	3
Interdisciplinary studies	2	2	2	4	1	1	1	2	--	--	--	--	a	a	1	1
Mathematics	1	1	1	1	1	1	1	1	--	--	--	--	1	1	1	2
Foreign languages	1	1	1	1	1	1	1	1	--	--	--	--	1	2	1	2
Architecture and environmental design	a	a	a	1	a	1	1	1	--	--	--	--	--	--	--	a
Area studies	a	a	a	a	a	a	a	a	--	--	--	--	--	--	--	a
Library science	a	a	a	a	2	2	2	2	--	--	--	--	2	1	1	a
Law	a	a	--	a	1	1	1	1	43	44	42	51	--	--	--	a
Military science	--	--	--	a	--	--	--	a	--	--	--	--	--	--	--	--
Theology	--	a	--	1	--	--	--	1	--	--	--	10	--	--	--	4
Total ³	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Total degrees	27,034	26,778	27,941	929,417	7,147	7,180	7,015	298,081	1,157	1,214	1,183	70,131	1,084	1,012	1,037	32,615

1. Arranged in descending order with respect to total undergraduate degrees conferred by Pennsylvania State-related and State-owned institutions, 1981-82.

2. Includes medical degrees.

3. Because of rounding, totals may not equal 100.

a. Rounds to less than 1 percent.

SOURCE: W. Vance Grant and Leo J. Elden, National Center for Education Statistics, Digest of Education Statistics 1982 (U.S. Government Printing Office, Washington, D.C.: 1982); Pennsylvania Department of Education, Our Colleges and Universities Today--Degrees and Other Formal Awards Conferred, vol. XVIII (1979-80), no. 2 and vol. XIX (1980-81), no. 2; "Bachelor's and Higher Degrees Conferred by Major Subject Area and Institution, 1981-82," Pennsylvania Department of Education, Division of Education Statistics, Bureau of Information Systems, December 1982.

RELATIONSHIP OF STUDENT CREDIT HOURS TO DEGREES

Table 11 shows that in total undergraduate student credit hours per degree conferred have increased by nearly 7 percent over the past four years. At the State-related universities, the number of student credit hours per undergraduate degree increased by about 9 (from 176 to 185) from 1977-78 to 1981-82. At the State-owned schools, the increase in credit hours per degree is 16 credit hours (from 162 to 178), which is equivalent to a full semester's workload. The minimum number of credit hours required to earn a bachelor's degree ranges from 120 to 128 depending upon the program and institution.

The increasing number of credit hours in excess of those normally required for a degree and the trend of increasing lower-division output relative to upper-division output lend support to the theory that a growing proportion of students are either leaving the State-supported schools before progressing beyond the introductory level courses or taking more credits than the minimum necessary to meet degree requirements, possibly because they must repeat courses. Other factors, however, may affect the relationship between degrees and student credit hours, including course availability as well as changes in the proportions of output in the various majors and associate degree programs.

It is interesting to note that the large State-related institutions require fewer credit hours for an undergraduate degree

Table 11

RELATIONSHIP OF STUDENT CREDIT-HOUR PRODUCTION TO DEGREES
1977-78 to 1981-82

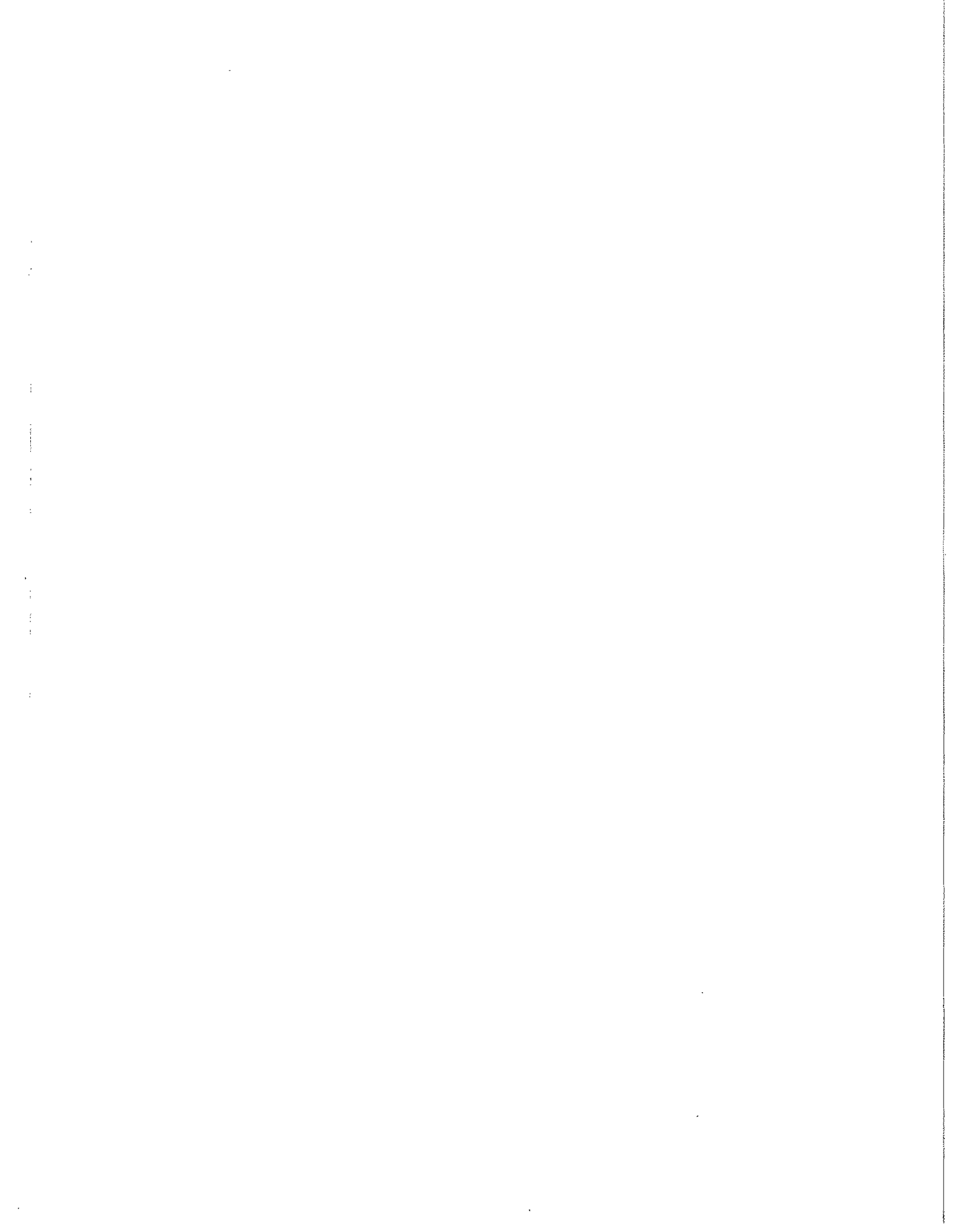
Year and level	All institutions			State-related institutions			State-owned institutions		
	Student credit hours (000s)	Degrees	Ratio	Student credit hours (000s)	Degrees	Ratio	Student credit hours (000s)	Degrees	Ratio
1981-82									
Undergraduate	4,920	27,088	181.6	2,775	15,026	184.7	2,145	12,062	177.8
Graduate	632	8,954	70.6	515	6,635	77.6	117	2,319	50.4
1980-81									
Undergraduate	4,817	26,839	179.5	2,730	14,758	185.0	2,087	12,081	172.8
Graduate	663	9,056	73.2	533	6,629	80.4	130	2,427	53.6
1979-80									
Undergraduate	4,743	a	a	2,678	15,206	176.1	2,065	a	a
Graduate	649	8,865	73.2	517	6,406	80.7	132	2,459	53.7
1978-79									
Undergraduate	4,681	28,193	166.0	2,645	15,465	171.0	2,036	12,728	160.0
Graduate	650	9,394	69.2	518	6,745	76.8	132	2,649	49.8
1977-78									
Undergraduate	4,789	28,211	169.8	2,709	15,368	176.3	2,080	12,843	162.0
Graduate	675	9,492	71.1	532	6,734	79.0	143	2,756	51.8

1. Undergraduate degrees include only bachelor's at all institutions. Graduate degrees include master's at all institutions except Lock Haven which does not have a master's program, first professional (excluding medical) and doctor's at Pittsburgh and Temple and doctor's at Penn State and Indiana University.
a. Data not available for all institutions.

SOURCE: Data provided by individual institutions, 1977 to 1982.

than do the State-owned schools but show a higher number of credit hours per degree earned. The minimum number of credits required for a bachelor's degree at Penn State or Pittsburgh is 120 and at Temple, 123. The minimum requirement at Lincoln and the State-owned schools is 128 with three exceptions--Indiana's minimum is 124 and Millersville and Shippensburg each require 120.

During the four-year period from 1977-78 to 1981-82, graduate credit hours per degree have not significantly changed. A decrease of about 1 percent in all institutions may be due to a shift in the mix of degree programs, which have more widely ranging requirements than at the undergraduate level. The normal requirement for an initial graduate degree is 30 credits.



II. FACULTY WORKWEEK ACTIVITIES AND SALARIES

WORKWEEK ACTIVITIES

Table 12 presents the head count of full-time faculty members in fall 1981 and the average amount of time they report spending in work-related activities. The total average workweek for all schools of 53 hours is approximately the same as in 1980 and has changed little since 1977. Total average classroom contact hours for all institutions, however, decreased by 2 percent (.2 hour per full-time faculty member) from 1980-81 to 1981-82, although Pittsburgh, Lincoln, Millersville, Clarion and Kutztown shows increases ranging from 1 percent to 5 percent. Total average weekly classroom contact hours since 1977 have decreased by 6 percent (.6 hour) in the State-related schools and 2 percent (.3 hour) in the State-owned schools for an overall decrease of 5 percent (.6 hour).

As shown in table 12, total classroom contact hours per week range from 12.1 (Lincoln) to 9.4 (Temple) in the State-related schools, and from 12.6 (Indiana) to 10.0 (Shippensburg) in the State-owned schools. The average for the State-related schools is 9.9 hours and for the State-owned schools, 11.7 hours. The average for all

Table 12

FULL-TIME FACULTY WORKWEEK ACTIVITIES
1981-82, AND PERCENTAGE CHANGE FROM 1980-81

Institution ¹	Full-time faculty		Average weekly hours per full-time faculty member ³										Total work-week	Percent-age change
	Total number ²	Percentage reporting workweeks	Contact hours				Instructional support	Percent-age change	Research	Percent-age change	Other university service	Percent-age change		
			Total	Percent-age change	Under-graduate	Graduate								
State-related														
Penn State	2,660	100%	10.2	-1%	8.3	1.9	20.5	-1%	9.5	3%	11.7	-3%	51.9	-1%
Pittsburgh	1,499	100	9.7	2	5.5	4.2	18.2	2	13.8	-1	11.6	-3	53.3	a
Temple ⁴	1,232	100	9.4	-10	5.6	3.8	15.9	1	9.5	-19	17.2	18	52.0	-1
Lincoln	71	100	12.1	5	11.0	1.1	16.1	11	8.3	9	9.9	6	46.4	8
Total	5,462	100	9.9	-2	6.9	3.0	18.8	1	10.7	-4	12.9	2	52.3	a
State-owned														
Indiana	613	100	12.6	-2	11.5	1.1	18.5	-5	9.9	8	17.5	3	58.5	a
West Chester	453	100	12.0	0	10.9	1.1	17.8	-1	9.1	5	19.3	1	58.2	1
Bloomsburg	312	100	11.6	-2	10.9	.7	16.6	-3	7.2	3	16.1	-4	51.5	-2
Millersville	289	100	11.8	3	11.1	.7	16.7	2	7.8	1	16.9	-1	53.2	1
Edinboro	342	100	11.9	-3	10.9	1.0	18.9	-6	7.8	-12	15.5	5	54.1	-4
Slippery Rock	323	100	12.1	b	11.5	.6	17.9	b	8.1	b	17.0	b	55.1	2
Clarion	288	100	11.3	2	10.8	.5	17.1	-1	6.7	0	16.2	0	51.3	a
Shippensburg	289	96	10.0	-2	9.1	.9	17.6	-2	8.5	1	15.9	1	52.0	-1
Kutztown	297	95	12.3	1	11.9	.4	16.9	4	8.4	4	16.4	-4	54.0	1
California	266	100	10.8	-3	10.0	.8	15.7	-3	7.1	1	18.0	3	51.6	a
East Stroudsburg	224	100	10.9	-2	10.3	.6	18.0	2	8.8	-9	18.0	-4	55.7	-3
Lock Haven	161	100	11.7	0	11.7	na	16.7	-6	7.0	-5	17.8	2	53.2	-2
Mansfield	164	88	10.4	-3	10.0	.4	20.0	32	8.7	6	11.4	3	50.5	12
Cheyney	174	66	11.8	-2	11.2	.6	17.1	-3	8.7	-6	17.3	-8	54.9	-5
Total	4,195	98	11.7	-1 ^c	10.9	.8	17.6	-1 ^c	8.3	1 ^c	16.9	0 ^c	54.5	0
All Institutions	9,657	99	10.6	-2 ^c	8.6	2.0	18.3	0 ^c	9.7	-2 ^c	14.6	1 ^c	53.2	a

1. Arranged in descending order with respect to total full-time equivalent students for 1981-82.

2. The number of full-time faculty for 1981-82 represents those reported by each school for the fall term.

3. Average calculated using only those full-time employed faculty in the fall who reported a complete workweek of 100 hours or less. For all schools except Cheyney at least 88 percent of full-time faculty reported each year; at Cheyney, 66 percent reported in 1981-82 and 60 percent in 1980-81.

4. Temple's workweek activities are shown as reported. Due to changes in workload data collection procedures at the school, Temple's breakdown of its workweek hours for 1981-82 may not be fully comparable to previous years.

a. Rounds to less than 1 percent.

b. Noncomparable data reported.

c. Does not include Slippery Rock.

na. Not applicable.

SOURCE: Reports provided by the individual institution, 1981 and 1982.

institutions is 10.6 hours. The division of contact hours between undergraduate and graduate levels reflects the relative sizes of the graduate programs in the two systems.

The reader should be aware that because of a change in data collection procedures, Temple's average hours spent in the various workweek activities may not be fully comparable with those reported in previous years (see footnote 4, table 12).

Appendix table 5A presents the fall full-time faculty head count and the average undergraduate and graduate contact hours reported for 1977 to 1981.

AVERAGE INSTRUCTIONAL SALARIES

FTE Instructional Faculty

Table 13 presents the average salaries of FTE instructional faculty members in 1981-82 by separate rank category and for all instructional faculty. The average salary increases shown in the table do not correspond with any general salary increases given to all faculty members. For example, if the composition of a faculty changes from one year to the next, with a greater proportion of higher-paid personnel the second year, the increase in the average salary will be greater than a general salary increase. Average instructional salaries are computed by dividing the total instructional salaries for the respective category by the number of FTE instructional faculty in the category.

Table 13

AVERAGE SALARY OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY AND PERCENTAGE DISTRIBUTION BY RANK¹
1981-82
(Dollar amounts in 000s)

Institution ²	FTE Instructional faculty		Average Instructional salary		Professor		Associate professor		Assistant professor		Instructor		Non-ranked ³	
	Number	Percentage change	Amount	Percentage Increase	Average salary	Percentage of faculty	Average salary	Percentage of faculty	Average salary	Percentage of faculty	Average salary	Percentage of faculty	Average salary	Percentage of faculty
		1980-81 to 1981-82		1980-81 to 1981-82		of		of		of		of		
State-related														
Penn State	2,746	2%	\$23.8	9%	\$34.9	17%	\$26.7	20%	\$21.0	30%	\$15.9	14%	\$20.4	19%
Pittsburgh	1,824	a	22.7	9	33.6	18	24.4	27	19.0	20	13.1	12	20.3	23
Temple	1,666	-4	22.0	4	34.7	25	25.6	24	19.6	20	11.6	14	9.7	17
Lincoln	97	2	17.7	2	26.0	16	19.9	16	16.0	38	15.2	18	13.1	12
Total	6,333	-1	22.9	7	34.4	20	25.5	23	20.1	24	14.0	14	17.8	19
State-owned														
Indiana	681	5	25.3	5	29.9	38	25.0	31	20.6	23	18.6	8	20.0	a
West Chester	458	-2	25.5	6	31.3	29	25.9	39	21.0	23	15.7	8	27.0	1
Bloomsburg	336	a	25.1	6	30.9	30	25.6	37	20.0	26	15.5	7	na	0
Millersville	318	b	25.1	b	30.2	32	24.8	41	20.3	21	14.9	6	16.2	a
Edinboro	340	2	27.0	7	31.8	36	26.2	37	22.0	25	18.2	2	na	0
Slippery Rock	306	4	26.7	7	31.7	40	26.8	29	21.6	21	17.2	10	23.4	a
Clarion	289	a	25.5	5	31.7	31	25.6	34	21.0	25	16.8	10	28.5	a
Shippensburg	287	1	26.5	6	31.6	38	25.9	31	21.3	25	17.5	6	na	0
Kutztown	268	1	27.7	6	32.8	37	27.0	38	22.1	18	18.2	7	25.0	a
California	241	-9	28.5	6	32.3	44	26.4	42	22.8	12	18.6	1	30.7	1
East Stroudsburg	223	3	25.8	7	30.5	39	25.1	37	20.5	19	14.1	5	31.9	a
Lock Haven	147	1	27.6	7	32.9	33	26.8	46	22.3	17	17.0	4	32.9	a
Mansfield	160	4	25.9	3	33.1	26	27.0	37	22.0	25	16.0	12	na	0
Cheyney	144	-12	27.5	b	32.5	30	26.8	55	22.8	8	18.2	7	9.6	a
Total	4,198	a ⁴	26.2	5 ^c	31.4	35	25.9	37	21.1	21	16.9	7	24.4	a

1. Average salary is calculated by dividing the total instructional salary paid to all staff members in the respective rank categories by their total full-time equivalency in the instructional function. One full-time equivalent faculty represents one full-time workload for two terms (one academic year). The summer term is treated as one term or one-half the academic year. Data for each year represent the summer term preceding the academic year plus the academic year.

2. Arranged in descending order with respect to total full-time equivalent students for 1981-82.

3. The full-time equivalency of nonranked faculty members is based on the time spent in instruction of all nonranked personnel, including lecturers, administrators, librarians, research staff and graduate assistants.

4. Excludes Millersville.

a. Rounds to less than 1 percent.

b. Noncomparable data reported.

c. Excludes Cheyney and Millersville.

na. Not applicable.

SOURCE: Salary reports provided by the individual institutions, 1981 and 1982.

Registering the largest one-year increases in average salaries were Penn State and Pittsburgh, each with a 9 percent increase; however, only two of the State-supported schools have lower average salaries--Temple (\$22,000) and Lincoln (\$17,700). Not only does Temple have the lowest average salary of the large schools, but the university also managed to achieve a 4 percent reduction in FTE faculty and to hold the average instructional salary increase to 4 percent over the previous year.

It was necessary to recompute Penn State's 1980-81 average salary to determine the percentage change, since it was discovered that the university reported incorrect salary data last year. Penn State's average instructional faculty salary in 1980-81 was \$21,900 instead of \$21,300, as previously reported (1980-81 average salary data are shown as part of appendix table 6A). Penn State, which increased its FTE instructional faculty by 2 percent, has the highest average salary for the rank of professor (\$34,900). However, Penn State and Lincoln have the lowest percentages of faculty in this rank (17 and 16 percent, respectively).

Most of the State-owned schools register increases in average salaries in the 5 to 7 percent range, with the exception of Mansfield, with a 3 percent increase. The overall average FTE instructional faculty salary of the State-owned schools (\$26,200) exceeds the average of the State-related universities by approximately \$3,000. The State-owned schools have far higher percentages of faculty in the two

top ranks: the percentages of faculty in the rank of professor range from 26 percent (Mansfield) to 44 percent (California) and in the rank of associate professor range from 29 percent (Slippery Rock) to 55 percent (Cheyney). Eighty-six percent of California's faculty are in the top two ranks. At the other end of the scale, only 37 percent of Penn State's faculty are in these ranks. While accomplishing a 9 percent reduction in FTE instructional faculty, California still has the highest average salary for all ranks, \$28,500.

Comparable data are available for only ranked faculty for 1977-78 to 1981-82. During this four-year period, the average FTE instructional ranked faculty salary at the State-owned schools increased by about 31 percent and at the State-related schools by over 34 percent. Thus, it appears that while the State-owned average salaries are considerably higher than the State-related salaries, the gap between the two is diminishing.

Ranked Faculty

Data in table 14, which were collected and compiled by the National Center for Education Statistics and are for a different set of faculty than those in table 13, are useful for making salary comparisons with State-supported institutions in other states and with selected private schools in Pennsylvania. The average salaries for 1981-82 in table 14 are calculated using the total salaries of full-time ranked main-campus faculty whose major assignment is

Table 14

AVERAGE INSTRUCTIONAL FACULTY SALARIES¹ BY CATEGORY² AND RANK
 PERCENTAGE OF FULL-TIME FACULTY IN EACH RANK
 MAIN CAMPUS OF SELECTED PUBLIC AND PRIVATE INSTITUTIONS
 ACADEMIC YEAR, 1981-82

Category	Institution	Average salary (000s)					Total ranked instructional faculty	Percentage of ranked faculty				
		All ranks	Prof.	Assoc. prof.	Asst. prof.	Instr.		Prof.	Assoc. prof.	Asst. prof.	Instr.	
I	State-related and State-owned											
	Penn State	\$28.6	\$37.8	\$28.1	\$22.4	\$15.3	1,402	37%	28%	25%	10%	
	Pittsburgh	29.3	39.4	28.3	22.1	16.1	1,254	33	36	24	7	
	Temple	28.3	36.3	27.5	21.8	17.3	1,349	35	33	23	9	
	Indiana	27.2	33.5	27.0	21.9	15.4	645	36	32	24	8	
	Private (Pennsylvania)											
	Bryn Mawr College	26.7	32.6	25.4	20.7	na	118	43	33	24	na	
	Lehigh	30.8	36.8	27.1	22.4	21.2	341	50	28	20	2	
	University of Pennsylvania	35.0	42.9	30.6	25.4	nd	1,028	48	24	28	a	
	Public (other states)											
	University of Delaware	27.5	38.4	27.0	20.9	17.8	744	32	36	30	2	
	University of Maryland	26.1	35.5	26.1	20.9	15.1	1,332	30	33	27	10	
	University of Michigan	33.3	39.8	28.4	23.1	16.9	1,603	55	22	22	1	
	SUNY - Stony Brook	31.3	41.4	28.1	21.1	nd	613	43	31	25	1	
	Ohio State	30.7	38.6	28.9	23.8	17.9	1,941	39	28	27	6	
	IIA	State-related and State-owned										
		Lincoln	19.5	26.3	21.5	17.8	14.9	77	21	22	39	18
Bloomsburg		27.4	33.4	27.5	21.1	16.4	302	32	39	25	4	
California		29.1	33.6	27.6	22.5	nd	282	41	43	15	1	
Cheyney		28.2	33.8	27.9	23.0	19.0	179	30	48	12	10	
Clarion		27.4	32.7	27.5	21.9	17.8	246	35	36	21	8	
East Stroudsburg		27.9	33.4	26.8	21.8	nd	227	37	37	25	1	
Edinboro		28.3	33.7	27.7	22.5	nd	344	35	37	27	1	
Kutztown		28.1	33.0	27.5	22.3	17.8	266	38	38	18	6	
Mansfield		26.7	33.1	27.6	21.6	15.8	167	29	39	22	10	
Millersville		27.5	33.5	27.2	22.0	17.9	291	31	42	20	7	
Shippensburg		28.4	33.5	27.5	22.5	17.7	265	40	32	25	3	
Slippery Rock		27.9	33.6	27.5	22.0	17.8	319	40	30	22	8	
West Chester		27.7	33.6	27.6	22.3	18.4	464	30	41	24	5	
Private (Pennsylvania)												
Bucknell		27.9	35.3	26.8	20.6	19.8	212	38	30	29	3	
Gannon		21.8	25.4	22.4	20.1	15.6	101	23	34	37	6	
Villanova		25.8	34.9	26.8	21.8	16.2	424	23	31	37	9	
Public (other states)												
Towson State University (Maryland)		24.9	32.1	27.1	22.3	17.3	427	24	28	37	11	
Grand Valley State Colleges (Michigan)		25.7	30.7	25.2	20.2	na	189	26	56	18	na	
Glassboro State College (N.J.)		26.5	33.5	26.7	21.7	17.8	363	31	23	44	2	
CUNY - Hunter College		31.7	41.0	33.1	24.8	19.4	597	33	35	20	12	
Youngstown State University (Ohio)		27.1	32.7	27.2	22.2	17.1	413	34	36	21	9	
IIB		State-owned										
		Lock Haven	27.9	33.4	27.5	22.6	17.6	163	33	42	19	6
		Private (Pennsylvania)										
		Franklin & Marshall College	25.2	34.4	26.0	19.1	16.1	136	31	26	31	12
		Gettysburg	24.3	32.3	24.5	18.9	17.4	131	27	36	27	10
	Moravian	22.3	28.2	22.3	18.6	nd	85	27	33	36	4	
	Washington & Jefferson	22.4	27.1	22.5	19.3	18.3	75	27	35	29	9	
	Public (other states)											
	Lake Superior State College (Michigan)	21.1	26.6	23.5	19.6	15.2	107	11	39	33	17	
	Stockton State College (N.J.)	21.4	30.9	24.5	19.1	16.0	156	13	28	38	21	

1. All data include only full-time ranked faculty whose major assignment is instruction--including those with release time for research--and excludes part-time and administrative faculty and faculty for preclinical and clinical medicine. Average salaries based on contracted salaries (adjusted to a standard academic year basis, when necessary), excluding summer teaching, extra load, etc.

2. Institutions in category I offer the doctorate degree and in the most recent three years conferred an annual average of 15 or more earned doctorates in at least three nonrelated disciplines. Institutions in category IIA award degrees above the bachelor's degree but do not qualify for category I. Institutions in category IIB award only the bachelor's degree or equivalent.

a. Less than 1 percent.

na. Not applicable.

nd. No data.

SOURCE: "Surprises and Uncertainties: Annual Report on the Economic Status of the Profession, 1981-82," *Academe* 68, Bulletin of the American Association of University Professors (Washington, D.C.: August 1982), pp. 26-79. Data obtained from the National Center for Education Statistics and submitted by institutions on NCES Form 2300-3.

instruction and who are employed during the academic year. To facilitate comparison, the institutions are categorized according to the level of the degrees granted, as detailed in footnote 2 of the table.

The data in table 14 show that the average instructional salaries for all ranks combined in the three large State-related schools are higher than those in selected similar publicly controlled schools in Delaware and Maryland, but lower than those in Michigan, New York and Ohio. In the State-owned schools a different picture emerges. Average instructional salaries for all ranks combined in these schools are generally higher than those in selected similar privately controlled schools in Pennsylvania or publicly controlled schools in other states (CUNY - Hunter College is an exception). This is because, in many cases, the State-owned schools use more higher-ranked faculty.

III. INSTRUCTIONAL SALARY COSTS

SALARY COST PER STUDENT CREDIT HOUR

The most significant measure of the cost efficiency of the instructional process in State-supported institutions is the faculty salary cost per student credit hour produced. This cost is determined by dividing the portion of all instructional faculty salaries, allocated by levels, by the corresponding student credit-hour output.⁵ While instruction requires other inputs--e.g., classrooms, libraries, dormitories, books, audio/visual aids, etc.--the cost of such inputs is either roughly proportional to salary costs or must be allocated by some fairly arbitrary factors (see footnotes and source note, table 21, p. 57). Tables 15, 16 and 17 provide data on 1981-82 instructional faculty salary costs per student credit hour by institution, level and HEGIS category.

⁵Since the method for allocating faculty salary costs by level was refined this year, 1981-82 cost data are not directly comparable with similar data for 1980-81 as reported last year. To permit a historical comparison, the cost data for 1980-81, 1981-82 and 1982-83 will be computed under the same method and presented in the 1984 report.

Table 15

INSTRUCTIONAL FACULTY SALARY COST
PER FULL-TIME EQUIVALENT STUDENT AND STUDENT CREDIT HOUR PRODUCED
1981-82

Institution ¹	Instructional faculty salary cost per full-time equivalent student ²		Instructional faculty salary cost per student credit hour ³				
	Undergraduate	Master's	Undergraduate			Graduate	
			Total Undergraduate	Lower division	Upper division	Master's	Doctor's
State-related							
Penn State	\$868	\$2,262	\$29	\$23	\$39	\$94	\$232
Pittsburgh	1,045	2,493	35	25	53	104	188
Temple	1,224	2,282	41	32	51	95	196
Lincoln	1,125	1,146	38	31	67	48	na
Total	977	2,349	33	25	45	98	215
State-owned							
Indiana	1,210	3,493	40	31	59	146	a
West Chester	1,301	2,490	43	33	69	104	na
Bloomsburg	1,307	1,795	44	37	55	75	na
Millersville	1,300	1,703	43	37	69	71	na
Edinboro	1,567	2,565	52	44	73	107	na
Slippery Rock	1,411	2,511	47	39	71	105	na
Clarion	1,260	3,513	42	36	60	146	na
Shippensburg	1,310	2,175	44	38	58	91	na
Kutztown	1,462	1,970	49	36	75	82	na
California	1,409	2,798	47	39	70	117	na
East Stroudsburg	1,410	1,568	47	37	73	65	na
Lock Haven	1,584	na	53	46	77	na	na
Mansfield	1,610	2,035	54	39	94	85	na
Cheyney	1,834	3,796	61	55	78	157	na
Total	1,369	2,460	46	37	67	102	na

1. Arranged in descending order with respect to total full-time equivalent students for 1981-82.

2. Full-time equivalent students are calculated by dividing undergraduate student credit hours by 30 and graduate student credit hours by 24.

3. The instructional faculty salary cost per student credit hour for each level was calculated as follows: the instructional salary for each rank was assigned by level according to the percentage distribution of the course (assigned) credits within each rank. The salary determined by this method for each rank was summed by level and divided by the total student credit-hour production at that level. In the case of individual instruction, most institutions did not report the applicable course credits. Therefore, one course credit was attributed to every three student credit hours produced in individual instruction.

a. Included at the master's level.

na. Not applicable.

SOURCE: Reports provided by the individual institutions, 1982.

Table 15 shows that instructional faculty salary costs per student credit hour are lower in total in the State-related schools than in the State-owned schools. However, average faculty costs vary considerably among the schools. In general, undergraduate costs at each level decrease as the number of FTE students increases. Penn State's average undergraduate costs are well below those of all other schools. Of the State-owned institutions, Indiana, the largest, has the lowest cost per FTE undergraduate student while Cheyney, the smallest, has the highest cost--more than 50 percent higher per FTE student than Indiana's cost. In both the State-related and State-owned schools, instructional salary costs per student credit hour are much higher for the undergraduate upper division than for the lower division, and higher still for the graduate level. Graduate costs appear to relate less to the size of the institution than to the nature of the graduate instruction offered. Penn State's doctoral-level cost is considerably higher than either Pittsburgh's or Temple's.

The HEGIS breakdowns in tables 16 and 17 show wide variances in costs among the selected categories, levels and institutions. The average cost per undergraduate student credit hour is \$33 at the State-related universities and \$46 at the State-owned schools. As shown in table 16, among the several classifications with the highest levels of student credit-hour output, the undergraduate cost of the

Table 16

AVERAGE INSTRUCTIONAL SALARY COST PER STUDENT CREDIT HOUR¹
 ALL INSTRUCTION AND SELECTED HEGIS CLASSIFICATION BY LEVEL
 1981-82

HEGIS classification ²	State-related					State-owned			
	Undergraduate					Undergraduate			
	Total under- graduate	Lower division	Upper division	Master's	Doctor's	Total under- graduate	Lower division	Upper division	Master's
All Instruction ³	\$33	\$25	\$45	\$98	\$215	\$46	\$37	\$67	\$102
Social sciences	29	22	44	134	270	37	30	64	162
Letters	32	28	46	139	238	45	40	80	137
Education	46	29	66	82	157	60	46	74	85
Business and management	26	21	29	59	226	29	24	32	73
Mathematics	25	22	48	108	275	36	33	71	120
Physical sciences	26	23	37	159	241	57	46	141	194
Fine and applied arts	40	29	58	129	256	59	46	112	207
Psychology	24	15	44	136	207	38	30	58	87
Engineering	33	32	34	104	242	--	--	--	--
Biological sciences	26	21	35	174	277	51	40	101	211
Foreign languages	41	34	69	166	175	61	54	131	88
Computer and Information sciences	27	23	32	48	180	34	29	49	91
Public affairs and services	41	28	46	69	159	40	27	56	105

1. The instructional faculty salary cost per student credit hour for each level was calculated as follows: the instructional salary for each rank was assigned by level according to the percentage distribution of the course (assigned) credits within each rank. The salary determined by this method for each rank was summed by level and divided by the total student credit-hour production at that level. In the case of individual instruction, most institutions did not report the applicable course credits. Therefore, one course credit was attributed to every three student credit hours produced in individual instruction.

2. Arranged in descending order with respect to total undergraduate student credit-hour production for 1981-82.

3. Includes all HEGIS classifications.

SOURCE: Reports provided by the individual institutions, 1982.

Table 17

UNDERGRADUATE INSTRUCTIONAL SALARY COST PER UNDERGRADUATE STUDENT CREDIT HOUR
FOR ALL INSTRUCTION AND SELECTED HEGIS CLASSIFICATION BY INSTITUTION¹
1981-82

HEGIS classification	(1) Penn State	(2) Pittsburgh	(3) Lincoln	(4) Indiana	(5) Temple	(6) Clarion	(7) Millersville	(8) West Chester	(9) Bloomsburg	(10) Shippensburg	(11) California	(12) East Stroudsburg	(13) Slippery Rock	(14) Kutztown	(15) Edinboro	(16) Lock Haven	(17) Mansfield	(18) Cheyney
All Instruction ²	\$29	\$35	\$38	\$40	\$41	\$42	\$43	\$43	\$44	\$44	\$47	\$47	\$47	\$49	\$52	\$53	\$54	\$61
Social sciences	25	31	44	29	35	36	38	31	37	38	48	33	40	41	44	40	45	66
Letters	29	37	39	38	34	46	40	45	40	50	53	40	42	52	46	54	46	64
Education	43	52	30	64	50	54	56	54	51	60	63	59	62	63	65	56	76	77
Business and management	21	27	32	26	34	25	25	31	33	35	22	39	25	29	34	--	--	36
Mathematics	23	24	25	41	32	43	33	29	37	35	29	37	34	44	34	43	45	39
Physical sciences	25	26	50	54	27	89	38	41	59	67	75	51	60	61	59	78	86	69
Fine and applied arts	31	35	51	54	57	57	47	67	50	47	54	49	67	40	72	76	--	89
Psychology	22	21	55	36	31	35	41	36	32	37	33	42	38	38	38	43	41	62
Biological sciences	23	36	36	45	18	44	51	44	53	51	73	43	47	43	64	84	47	75
Foreign languages	35	49	39	47	52	69	66	50	70	73	72	87	63	66	74	72	62	93
Computer and Information sciences	25	22	--	29	45	37	33	--	--	--	--	37	38	79	--	--	30	51
Public affairs and services	41	51	--	--	37	--	61	33	--	52	42	57	42	--	--	--	37	--

1. Institutions arranged in ascending order with respect to cost efficiency for all instruction. HEGIS classifications are arranged in descending order with respect to total undergraduate student credit-hour production for 1981-82. The instructional faculty salary cost per student credit hour for each level was calculated as follows: the instructional salary for each rank was assigned by level according to the percentage distribution of the course (assigned) credits within each rank. The salary determined by this method for each rank was summed by level and divided by the total student credit-hour production at that level. In the case of individual instruction, most institutions did not report the applicable course credits. Therefore, one course credit was attributed to every three student credit hours produced in individual instruction.

2. Includes all HEGIS classifications.

SOURCE: Reports provided by the individual institutions, 1982.

education curriculum is the most expensive--\$46 per undergraduate credit hour at the State-related schools and \$60 at the State-owned schools.

The State-owned schools, which have an average upper-division cost for all instruction of \$67, register very high upper-division costs in the physical sciences (\$141), fine and applied arts (\$112), biological sciences (\$101) and foreign languages (\$131). The lowest upper-division cost at the schools is in business and management (\$32). The average upper-division cost for all instruction at the State-related universities is \$45, with the costs in the selected categories ranging from \$29 in business and management to \$69 in foreign languages.

Appendix table 7A presents instructional salary costs per student credit hour by school, HEGIS and level for 1981-82.

CLASS SIZE

Previous research by the Joint State Government Commission has shown that average class sizes in classroom instruction have a considerable impact on faculty salary costs per student credit hour produced. Regression analyses relating 1981-82 class sizes to salary costs per student credit hour show that an increase in average class size of one student would result in average cost reductions per student credit hour ranging from \$0.69 in the lower division and \$2.06 in the

upper division of the State-related universities to \$1.03 in the lower division and \$7.21 in the upper division of the State-owned schools.

Appendix tables 8A and 9A give average lower- and upper-division class sizes by institution and HEGIS classification for 1981-82.

By Level and Institution

Table 18 shows that class sizes vary significantly among schools and among levels within individual schools. Significant changes in individual schools over 1980-81 include:

- California and Lincoln show increases in average undergraduate class size of 15 percent and 19 percent, respectively.
- While Lincoln, Cheyney and Lock Haven show respective upper-division class size increases of 22 percent, 36 percent and 12 percent, significant decreases are reported by Slippery Rock (12 percent) and East Stroudsburg (11 percent).
- At the master's level, while Cheyney increased the average class size by 50 percent, five schools register sizable decreases: Indiana (14 percent), Edinboro (12 percent), Clarion (11 percent), California (11 percent) and Mansfield (21 percent).

Appendix table 10A gives average class sizes by level and school for the three years 1979-80 to 1981-82.

Table 18

AVERAGE CLASS SIZE IN CLASSROOM INSTRUCTION BY LEVEL¹
ACADEMIC YEAR 1981-82
PERCENTAGE CHANGE 1980-81 to 1981-82

Institution ²	Total			Undergraduate			Master's					
	Class size	One-year change	Percentage change	Class size	One-year change	Percentage change	Class size	One-year change	Percentage change	Class size	One-year change	Percentage change
State-related												
Penn State	31	0	0	32	0	0	30	1	3%	14	0	0
Pittsburgh	29	0	0	32	1	3%	25	0	0	18	1	6%
Temple	22	a	a	24	a	a	20	a	a	13	a	a
Lincoln	19	3	19%	24	4	20	11	2	22	14	0	0
Total	28	a	a	30	a	a	26	a	a	15	a	a
State-owned												
Indiana	26	1	4	32	-1	-3	18	1	6	6	-1	-14
West Chester	21	a	a	27	a	a	13	a	a	7	a	a
Bloomsburg	24	0	0	28	0	0	19	-1	-5	12	1	9
Millersville	25	1	4	29	0	0	16	1	7	11	0	0
Edinboro	21	0	0	25	1	4	15	-1	-6	7	-1	-12
Slippery Rock	23	-2	-8	29	0	0	15	-2	-12	10	0	0
Clarion	30	1	3	37	3	9	20	-1	-5	8	-1	-11
Shippensburg	26	-1	-4	28	0	0	21	-1	-5	14	2	17
Kutztown	24	0	0	33	0	0	16	1	7	14	1	8
California	23	3	15	27	4	17	16	1	7	8	-1	-11
East Stroudsburg	26	0	0	32	0	0	17	-2	-11	14	0	0
Lock Haven	25	1	4	28	0	0	18	2	12	na	na	na
Mansfield	20	0	0	28	1	4	11	-1	-8	11	-3	-21
Cheyney	19	1	6	21	-2	-9	15	4	36	9	3	50
Total	24	a	a	29	a	a	16	a	a	9	a	a
All institutions	26	a	a	30	a	a	21	a	a	12	a	a

1. Average class size for each level is calculated by dividing the total classroom student credit hours by the total classroom assigned credits.

2. Arranged in descending order with respect to total full-time equivalent students for 1981-82.

a. Noncomparable data reported.

na. Not applicable.

SOURCE: Reports provided by the individual institutions, 1981 and 1982.

Courses Taught

Average class sizes are influenced by student enrollments and the number of courses and course sections scheduled. Table 19 shows one-year changes in the number of courses taught per term and the student credit-hour output per course. Appendix table 11A shows the average number of courses taught per term by level and school for the five academic years 1977-78 to 1981-82.

Individual Instruction

Some courses are taught in the classroom, whereas others are arranged on a "one-to-one" basis between teachers and students. Previous analysis has indicated individual instruction to be significant in explaining differences in salary cost per student credit hour at the upper-division level.⁶ Table 20 details the number and percentage of total student credit hours produced in individual instruction at the graduate and undergraduate levels in the various schools.

Penn State produces 46 percent and Pittsburgh, 20 percent, of their graduate student credit hours in individual instruction (a one percentage point increase from 1980-81 for each of these schools). Penn State's extraordinarily high proportion of individual instruction helps explain its high doctoral-level salary costs. As exhibited in appendix table 12A--which shows 1981-82 total student credit-hour

⁶See 1982 faculty output report, pp. 55-56.

Table 19

AVERAGE NUMBER OF COURSES TAUGHT AND STUDENT CREDIT HOURS PRODUCED PER COURSE PER TERM¹
ACADEMIC YEAR 1981-82, AND PERCENTAGE CHANGE FROM 1980-81

Institution ²	Undergraduate				Master's			
	Courses taught per term		Average student credit-hour production per course taught per term		Courses taught per term		Average student credit-hour production per course taught per term	
	Average number	Percentage change	Average number	Percentage change	Average number	Percentage change	Average number	Percentage change
State-related								
Penn State	1,768	1%	431	3%	295	-1%	73	1%
Pittsburgh	1,752	a	158	0	937	-2	48	2
Temple	1,648	a	144	-3	b	b	b	b
Lincoln	189	11	89	19	21	17	112	-12
State-owned								
Indiana ³	850	2	195	1	258	6	22	-8
West Chester	904	4	117	0	238	2	22	-8
Bloomsburg	516	-1	159	2	76	-3	32	-9
Millersville	522	a	140	4	102	29	26	-30
Edinboro	517	-2	140	4	86	0	34	-11
Slippery Rock	565	6	132	-3	82	4	28	-7
Clarion	482	3	153	1	72	-1	22	-8
Shippensburg	394	1	175	0	82	0	46	-2
Kutztown	416	b	162	b	43	b	47	b
California	490	a	115	8	108	24	23	-32
East Stroudsburg	432	a	119	0	37	-8	40	0
Lock Haven	314	1	118	0	na	na	na	na
Mansfield	455	7	75	-3	56	44	17	-32
Cheyney	294	-8	97	5	25	-19	32	88

1. Average student credit hours per course are calculated by dividing the average production for each term in the academic year by the average number of courses taught each term in the academic year. Penn State data adjusted to two terms.

2. Arranged in descending order with respect to total full-time equivalent students for 1981-82.

3. Doctoral student credit hours included at the master's level.

a. Rounds to less than 1 percent.

b. Noncomparable data reported.

na. Not applicable.

SOURCE: Reports provided by the individual institutions, 1981 and 1982.

Table 20

STUDENT CREDIT HOURS IN INDIVIDUAL INSTRUCTION
1981-82, AND PERCENTAGE DISTRIBUTION OF TOTAL PRODUCTION BY LEVEL¹
(Credit hours in 000s)

Institution ²	Total credit hours in individual instruction	Percentage of total production	Total undergraduate credit hours in individual instruction	Percentage of total undergraduate production	Total graduate credit hours in individual instruction ³	Percentage of total graduate production
State-related						
Penn State	84.6	5%	33.0	2%	51.6	46%
Pittsburgh	57.9	7	18.8	3	39.1	20
Temple	26.8	4	12.4	2	14.4	7
Lincoln	.2	a	.2	a	0	0
Total	169.5	5	64.4	2	105.1	20
State-owned						
Indiana	6.9	2	6.1	2	.8	5
West Chester	.5	a	.5	a	0	0
Bloomsburg	1.7	1	1.4	1	.3	3
Millersville	.7	a	.5	a	.2	1
Edinboro	3.0	2	2.9	2	.1	1
Slippery Rock	.7	a	.5	a	.2	3
Clarion	1.4	1	1.3	1	.1	3
Shippensburg	3.4	2	2.6	2	.8	6
Kutztown	1.3	1	1.1	1	.2	3
California	0	0	0	0	0	0
East Stroudsburg	2.3	2	2.0	2	.3	4
Lock Haven	.4	1	.4	1	na	na
Mansfield	.2	a	.2	a	a	1
Cheyney	a	a	a	a	0	0
Total	22.5	1	19.5	1	3.0	3
All institutions	192.0	3	83.9	2	108.1	17

1. Individual instruction encompasses all instruction which, because of its nature, is not delivered in a group situation. This activity may include independent study research (both thesis and nonthesis), internship or field work, teaching or clinical practicum and individual instruction in the fine arts.

2. Arranged in descending order with respect to total full-time equivalent students for 1981-82.

3. In addition to the master's level, the graduate level for Penn State, Pittsburgh, Temple and Indiana University also includes first professional (excluding medical) and/or doctoral student credit hours.

a. Rounds to less than 100 student credit hours or less than 1 percent of total production.

na. Not applicable.

SOURCE: Student credit-hour reports provided by the individual institutions, 1982.

production in individual instruction by level, HEGIS classification and school--Penn State has a sizable proportion of its graduate individual instruction output (as well as total graduate output--see appendix table 3A) in education and the physical sciences. Pittsburgh also reports considerable graduate output and individual instruction output in education.

INTERSTATE COMPARISON OF TOTAL INSTRUCTIONAL COST
PER FULL-TIME EQUIVALENT STUDENT UNIT

Table 21 lists the total instructional cost per FTE student unit for all publicly controlled institutions of higher education (including two-year colleges) in all states for the fiscal year 1980. Pennsylvania's total instructional cost per FTE student unit is \$3,207, the eighth highest in the nation. Higher per student expenditures are made only by the publicly controlled institutions of higher education in Alaska, Wyoming, Vermont, New York, Delaware, Iowa and Wisconsin. The average (mean) instructional expenditure per student unit is \$2,816, which is exceeded by only 18 of the 50 states.

Regional differences in per student instructional expenditures are obviously determined by many factors. Among the important causal variables are the average size of the institutions, wealth and the population's "preference for higher education" in any state.

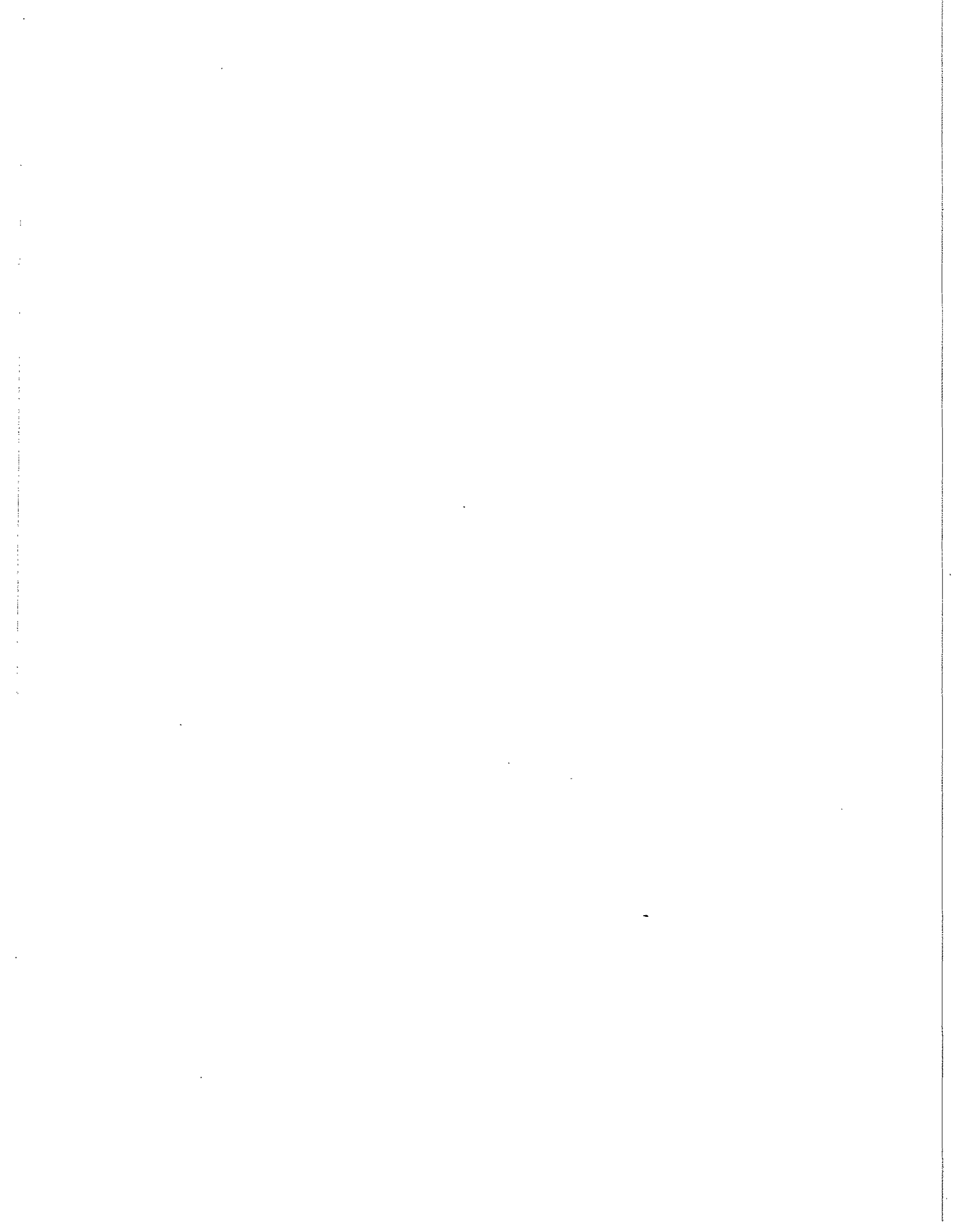
Table 21
 Total Instructional Cost¹ per FTE Student Unit,²
 All Publicly-Controlled Institutions,
 Fiscal Year 1980

Rank	State	Total Instructional cost/student unit	Rank	State	Total Instructional cost/student unit
1	Alaska	\$5,733	26	Idaho	\$2,733
2	Wyoming	3,983	27	Nevada	2,719
3	Vermont	3,762	28	Florida	2,688
4	New York	3,405	29	West Virginia	2,685
5	Delaware	3,404	30	Texas	2,656
6	Iowa	3,287	31	South Dakota	2,617
7	Wisconsin	3,235	32	Tennessee	2,611
8	PENNSYLVANIA	3,207	33	Colorado	2,596
9	Michigan	3,053	34	Nebraska	2,595
10	South Carolina	3,045	35	Alabama	2,586
11	North Carolina	3,013	36	Missouri	2,576
12	California	2,973	37	Arkansas	2,539
13	North Dakota	2,933	38	Washington	2,522
14	Indiana	2,919	39	Kansas	2,508
15	Kentucky	2,918	40	Hawaii	2,485
16	Rhode Island	2,902	41	Georgia	2,484
17	Maryland	2,886	42	Virginia	2,472
18	Utah	2,826	43	New Mexico	2,440
19	Mississippi	2,804	44	Arizona	2,415
20	Maine	2,790	45	Louisiana	2,363
21	Illinois	2,788	46	New Hampshire	2,349
22	Oregon	2,781	47	Connecticut	2,319
23	Ohio	2,779	48	Montana	2,313
24	Minnesota	2,745	49	Massachusetts	2,135
25	New Jersey	2,741	50	Oklahoma	2,019
		Average, 50 States			\$2,816

1. Instructional costs for each state include instruction, student services, and scholarships and fellowships, plus a portion of academic support, instructional support, plant operation and mandatory; the latter costs are allocated to instruction on the basis of the ratio of each state's direct instructional costs to its total costs, where total costs equal the direct instructional costs plus noninstructional public service and research.

2. FTE students are converted to student units, using the weights devised by Bowen, in recognition that instructional costs vary by student levels.

SOURCE: FTE Students - National Center for Education Statistics, Fall Enrollment in Higher Education, 1979 (Washington, D.C.: July 1980), Tables 12-E, 13-E; Student Weights - Howard R. Bowen, *The Costs of Higher Education* (San Francisco: Jossey-Bass Publishers: 1980), p. 265; Instructional Costs - National Center for Education Statistics, Washington D.C., worksheets, August 1980.



IV. STUDENT AND PUBLIC COSTS

An analysis of faculty productivity (or cost efficiency) at public institutions is important because of the impact of productivity on both the student's share of instructional cost (tuition and fees) and the public's share (State appropriations). When faculty productivity increases, it may be possible to reduce tuition and the level of public support. As pointed out in previous chapters, faculty productivity as measured by cost per student credit hour is affected by such factors as the average number of students per class (class size), the amount of time spent in the classroom by FTE faculty (contact hours) and average faculty salary levels. There is little evidence to support the notion that high faculty productivity corresponds with low instructional quality. As discussed in the 1982 faculty output report, independent research confirms that some of the nation's more prestigious institutions of higher learning are among the most cost efficient.

TUITION AND STUDENT FEES

Table 22 shows the 1982-83 undergraduate and graduate tuition and required fees for the main campuses of Pennsylvania's State-supported institutions, selected private institutions in Pennsylvania and selected public institutions in other states. Data in table 22 (and appendix table 12A in the 1982 report) indicate that in-State undergraduate student tuition and required fees increased from 1981-82 to 1982-83 at the State-related schools as follows: Penn State, 14.6 percent; Pittsburgh, 12.5 percent; Temple, 9.8 percent; and Lincoln, 20.7 percent. At the State-owned schools, in-State undergraduate student tuition and required fees increased from 1981-82 to 1982-83 by 18 percent. For 1982-83, the in-State undergraduate tuition and average fees are approximately \$1,600 at the State-owned schools as compared with approximately \$2,100 at Penn State, \$2,300 at Pittsburgh and \$2,600 at Temple.

Table 22 further shows that direct student charges at Pennsylvania's State-supported institutions, while much lower than those at comparable private schools within the State, are often much higher than those at comparable public schools in other states. With few exceptions, the ranking of states with respect to tuition charges in their publicly controlled institutions (table 22) would correspond to the ranking of states by total instructional costs per student unit (table 21).

Table 22

ACADEMIC YEAR TUITION AND REQUIRED FEES
MAIN CAMPUSES OF SELECTED PUBLIC AND PRIVATE INSTITUTIONS
1982-83

Category ¹	Institution	Undergraduate ²			Graduate ²			
		Public		Private	Public			
		In-state	Out-of-state		In-state	Out-of-state	Private	
I	State-related and State-owned							
	Penn State	\$2,118	\$4,254		\$2,256	\$4,512		
	Pittsburgh (average, all programs)	2,318	4,528		2,624	5,184		
	Temple	2,616	4,800		2,904	3,720		
	Indiana	1,632	2,742		1,584	1,584		
	Private (Pennsylvania)							
	Bryn Mawr College			\$7,855			\$7,100	
	Lehigh			7,200			7,200	
	University of Pennsylvania			8,000			8,330	
	Public (other states)							
	University of Delaware	1,290	3,480		1,290	3,480		
	University of Maryland	1,185	3,303		1,718	3,038		
	University of Michigan	2,144	6,014		2,966	6,310		
	Rutgers	1,681	3,047		2,166	3,022		
	SUNY - Stony Brook	1,145	1,845		1,769	2,233		
	Ohio State	1,458	3,726		1,881	4,518		
	IIA	State-related and State-owned						
Lincoln		1,750	2,750		1,820	3,020		
State-owned ³		1,630	2,740		1,556	1,556		
Private (Pennsylvania)								
Bucknell				7,425			5,100	
Gannon				3,414			3,000	
Villanova				5,140			3,120	
Public (other states)								
Towson State University (Maryland)		1,292	2,332		1,489	1,489		
Grand Valley State Colleges (Michigan)		1,365	3,165		1,431	3,135		
Glassboro State College (N.J.)		1,164	1,764		1,591	2,071		
CUNY - Hunter College		1,125	1,625		1,740	2,295		
Youngstown State University (Ohio)		1,245	2,145		960	1,560		
IIB		State-owned						
		Lock Haven	1,604	2,714		na	na	
		Private (Pennsylvania)						
		Franklin & Marshall College ⁴			6,550			--
	Gettysburg			6,000			--	
	Moravian			5,660			--	
	Washington & Jefferson			6,110			--	
	Public (other states)							
	Lake Superior State College ⁴ (Michigan)	1,328	2,516		2,160	2,160		
	Stockton State College (N.J.)	1,155	1,755		na	na		

1. Institutions in category I offer the doctorate degree and in the most recent three years conferred an annual average of 15 or more earned doctorates in at least three nonrelated disciplines. Institutions in category IIA award degrees above the bachelor's degree but do not qualify for category I. Institutions in category IIB award only the bachelor's degree or equivalent.

2. In instances where charges are on a per course basis, undergraduate tuitions are determined on a 30 credit-hour, academic-year workload and graduate tuitions on a 24 credit-hour, academic-year workload.

3. Bloomsburg, California, Cheyney, Clarion, East Stroudsburg, Edinboro, Kutztown, Mansfield, Millersville, Shippensburg, Slippery Rock and West Chester. The tuition of all State-owned institutions, established by the Department of Education, is identical; fees vary slightly.

4. Graduate in business administration only.

na. Not applicable.

SOURCE: Pennsylvania Department of Education, Tuition and Required Fees and Room and Board Charges at Institutions of Higher Education in Pennsylvania, 1982-83 (Harrisburg: 1982) and individual out-of-state institutions.

If direct student charges are to reflect properly the differentials in average instructional faculty salary costs by level of instruction, they should also vary by instructional level. That is, in addition to the different tuition rates which now exist for undergraduate and graduate students and for in- and out-of-State students (reflecting State appropriations), different tuition rates should be set for lower- and upper-division undergraduate students to reflect the higher salary costs for the production of upper-division student credit hours. Higher tuition charges for upper-division students are in effect in public institutions in such states as Florida and Michigan.

STATE APPROPRIATIONS

Table 23 shows total State appropriations for instruction to all of the State-related and State-owned institutions, appropriations per FTE student and the one-year and four-year percentage changes in these amounts. The schools in each group are arranged in descending order with respect to FTE students. It is clear from the table that State appropriations per student tend to increase as the number of FTE students decreases--an implicit recognition of economies of scale in the appropriation process.

Generally, the larger State-related schools receive smaller State appropriations per FTE student than do the smaller State-owned schools. Both Pittsburgh and Temple receive larger appropriations per

Table 23

APPROPRIATIONS RELATED TO TUITION AND FEE REVENUES AND FTE STUDENTS¹
 1981-82, CHANGE FROM 1980-81 AND FOUR-YEAR AVERAGE ANNUAL RATE OF CHANGE
 (1977-78 to 1981-82)

Institution ²	State appropriation			Appropriation as percentage of total revenues from tuition, fees and appropriation	Appropriation per FTE student			
	Amount (millions)	Percentage change			Amount	One-year change	Percentage change	
One year		Four-year annual average	One year	Four-year annual average				
State-related								
Penn State	\$98.9	4%	6%	48%	\$1,710	\$18	1%	4%
Pittsburgh ³	66.3	4	6	47	2,270	87	4	6
Temple	70.9	4	6	51	2,790	275	11	10
Lincoln ⁴	3.9	4	8	59	2,580	-524	-17	1
Total	240.0	4	6	49	2,110	76	4	6
State-owned								
Indiana	28.9	9	9	65	2,250	136	7	7
West Chester	22.1	6	6	67	2,640	100	4	6
Bloomsburg	16.0	6	9	66	2,540	149	6	9
Millersville	15.4	6	5	66	2,590	104	4	4
Edinboro	16.6	-2	4	71	2,960	-104	-3	5
Slippery Rock	16.1	6	5	68	2,900	113	4	7
Clarion	15.3	7	6	69	2,790	62	2	4
Shippensburg	15.1	7	7	68	2,770	175	7	7
Kutztown	14.1	6	6	67	2,850	49	2	4
California	14.9	3	3	74	3,290	-141	-4	3
East Stroudsburg	12.6	6	9	68	3,110	210	7	11
Lock Haven	9.4	6	9	73	3,650	144	4	6
Mansfield	10.4	0	4	76	4,050	-178	-4	4
Cheyney	10.4	7	7	77	4,980	466	10	18
Total	217.4	5	6	69	2,850	91	3	6
All Institutions	457.4	5	6	57	2,400	84	3	6

1. Appropriations include only funding for educational and general purposes.

2. Arranged in descending order with respect to total full-time equivalent students for 1981-82.

3. Includes appropriation for Titusville campus.

4. Includes appropriation for human services.

SOURCE: Reports provided by the individual institutions, 1982; Governor's Executive Budget, 1982-83; data furnished by Pennsylvania Department of Education, Bureau of Budget and Management, February 1983.

student than would be justified by the number of their total FTE students alone because of their greater emphasis upon graduate programs (see table 4). For 1981-82, State appropriations for instruction per FTE student ranges from \$1,710 at Penn State to \$4,980 at Cheyney. The average for the State-related group is \$2,110 and for the State-owned, \$2,850. While the average appropriation per FTE student has increased during the last four years at the average annual rate of 6 percent overall, the appropriations per FTE student allocated for three schools (Temple, East Stroudsburg and Cheyney) have increased at average rates of 10 percent or more since 1977-78.

Appropriations to the large State-related universities cover about one-half the total cost of instruction represented by tuition, fees and direct State appropriations. In contrast, for the State-owned system 69 percent of total instructional cost is received in the form of direct State appropriations.⁷

⁷Some students at all institutions also receive State-subsidized grants or loans from PHEAA.

Appendix Table 1A

TOTAL YEAR FULL-TIME EQUIVALENT STUDENTS AND DEGREE PRODUCTION¹
1977-78 to 1981-82

Institution	Full-time equivalent students					Degrees				
	1981-82	1980-81	1979-80	1978-79	1977-78	1981-82	1980-81	1979-80	1978-79	1977-78
State-related										
Penn State										
Total	57,873	55,994	54,550	53,824	54,498	10,088	9,766	9,931	10,318	10,017
Undergraduate	53,225	51,374	50,137	49,456	49,782	8,385	8,024	8,319	8,588	8,251
Graduate	4,648	4,620	4,413	4,368	4,716	1,703	1,742	1,612	1,730	1,766
Pittsburgh										
Total	29,154	29,011	28,276	27,828	28,537	6,153	6,156	6,064	6,264	6,366
Undergraduate	20,967	20,760	19,941	19,810	20,123	3,458	3,485	3,460	3,555	3,603
Graduate	8,187	8,251	8,335	8,018	8,414	2,695	2,671	2,604	2,709	2,763
Temple										
Total	25,408	26,987	26,562	26,957	28,201	5,193	5,216	5,401	5,411	5,564
Undergraduate	17,008	17,852	17,961	17,885	19,226	3,028	3,101	3,246	3,139	3,359
Graduate	8,400	9,135	8,601	9,072	8,975	2,165	2,115	2,155	2,272	2,205
Lincoln										
Total	1,525	1,217	1,412	1,158	1,199	227	249	216	217	155
Undergraduate	1,300	998	1,207	1,046	1,151	155	148	181	183	155
Graduate	225	219	205	112	48	72	101	35	34	na
State-owned										
Bloomsburg										
Total	6,314	6,354	6,366	6,191	6,302	1,367	1,327	1,311	1,339	1,286
Undergraduate	5,944	5,901	5,875	5,755	5,802	1,147	1,088	1,074	1,118	1,057
Graduate	370	453	491	436	500	220	239	237	221	229
California										
Total	4,541	4,226	4,068	4,208	4,473	842	825	851	950	1,029
Undergraduate	4,193	3,850	3,724	3,840	4,058	687	664	700	780	822
Graduate	348	376	344	368	415	155	161	151	170	207
Cheyney										
Total	2,080	2,143	2,371	2,363	2,747	340	369	348	359	428
Undergraduate	2,003	2,078	2,285	2,263	2,606	308	343	318	316	390
Graduate	77	65	86	100	141	32	26	30	43	38
Clarion										
Total	5,493	5,262	5,299	5,213	5,050	981	961	1,001	1,118	1,046
Undergraduate	5,290	5,034	5,091	4,970	4,790	859	834	881	997	881
Graduate	203	228	208	243	260	122	127	120	121	165
East Stroudsburg										
Total	4,050	4,090	4,096	4,045	4,276	710	767	766	770	838
Undergraduate	3,777	3,737	3,776	3,709	3,909	626	677	686	692	765
Graduate	273	353	320	336	367	84	90	80	78	73
Edinboro ²										
Total	5,607	5,541	5,356	5,484	5,760	951	1,012	1,074	1,253	1,363
Undergraduate	5,213	5,095	4,946	5,046	5,279	763	797	837	978	1,053
Graduate	394	446	410	438	481	188	215	237	275	310
Indiana ²										
Total	12,869	12,600	12,427	12,264	11,885	2,570	2,657	2,673	2,657	2,461
Undergraduate	12,139	11,805	11,601	11,469	11,080	2,139	2,217	2,255	2,254	2,090
Graduate	730	795	826	795	805	431	440	418	403	371
Kutztown										
Total	4,965	4,762	4,521	4,512	4,593	869	835	895	919	921
Undergraduate	4,709	4,474	4,242	4,203	4,278	733	708	762	773	747
Graduate	256	288	279	309	315	136	127	133	146	174
Lock Haven										
Total	2,575	2,526	2,384	2,252	2,350	393	401	395	388	464
Undergraduate	2,575	2,526	2,384	2,252	2,350	393	401	395	388	464
Graduate	na	na	na	na	na	na	na	na	na	na
Mansfield										
Total	2,554	2,451	2,539	2,400	2,618	440	462	497	548	562
Undergraduate	2,440	2,312	2,381	2,287	2,488	381	400	448	510	531
Graduate	114	139	158	113	130	59	62	49	38	31
Millersville										
Total	5,947	5,829	5,600	5,523	5,650	1,139	1,085	1,082	1,238	1,148
Undergraduate	5,349	5,189	4,956	4,863	4,934	960	917	894	1,002	914
Graduate	598	640	644	660	716	179	168	188	236	234
Shippensburg										
Total	5,457	5,467	5,500	5,405	5,488	1,353	1,384	1,389	1,274	1,315
Undergraduate	4,937	4,920	4,923	4,760	4,819	1,025	1,017	1,018	835	899
Graduate	520	547	577	645	669	328	367	371	439	416
Slippery Rock										
Total	5,564	5,460	5,536	5,504	5,815	1,066	1,063	1,152	1,008	1,164
Undergraduate	5,281	5,152	5,178	5,178	5,454	931	955	1,003	872	1,023
Graduate	283	308	358	326	361	135	108	149	136	141
West Chester										
Total	8,352	8,189	8,188	8,091	8,238	1,360	1,360	a	1,556	1,576
Undergraduate	7,661	7,417	7,449	7,335	7,436	1,110	1,063	a	1,213	1,207
Graduate	691	772	739	756	802	250	297	296	343	369

1. Data for each year represent the summer term preceding the academic year plus the academic year. Full-time equivalent students are calculated by dividing undergraduate student credit hours by 24. Undergraduate degrees include bachelor's degrees only. Graduate degrees include master's at all institutions except Lock Haven which does not have a master's program, first professional (excluding medical) and doctor's at Pittsburgh and Temple and doctor's at Penn State and Indiana University.

2. Edinboro student credit-hour data for fiscal years 1977-78 and 1978-79 and Indiana University student credit-hour data for fiscal year 1979-80 from "State College and University Budgeting System Common Cost Accounting Reports."

a. Noncomparable data reported.

na. Not applicable.

SOURCE: Reports provided by the individual institutions, 1977 to 1982.

Appendix Table 2A

 STUDENT CREDIT-HOUR PRODUCTION BY LEVEL¹
 TOTAL YEAR AND SUMMER, 1977-78 to 1981-82
 (Credit hours in 000s)

Institution	Total year						Summer				
	Lower division	Upper division	Total undergraduate	Master's	First professional	Doctor's	Total graduate	Grand total	Undergraduate	Graduate	Total
State-related											
Penn State											
1981-82	1,033	564	1,597	49	na	62	111	1,708	74	21	95
1980-81	1,003	538	1,541	50	na	61	111	1,652	71	23	94
1979-80	966	538	1,504	50	na	56	106	1,610	70	21	91
1978-79	908	576	1,484	49	na	56	105	1,589	77	21	98
1977-78	915	579	1,494	54	na	59	113	1,607	71	27	98
Pittsburgh											
1981-82	412	217	629	121	42	33	196	825	74	47	121
1980-81	406	217	623	121	44	33	198	821	72	48	120
1979-80	386	212	598	123	43	33	199	797	65	48	113
1978-79	383	211	594	119	41	32	192	786	69	39	108
1977-78	404	200	604	130	45	29	202	806	80	44	124
Temple											
1981-82	277	233	510	102	93	7	202	712	37	26	63
1980-81	295	241	536	114	97	8	219	755	46	31	77
1979-80	295	244	539	114	86	7	207	746	47	27	74
1978-79	294	242	536	113	96	9	218	754	48	25	73
1977-78	326	251	577	112	90	14	216	793	52	28	80
Lincoln											
1981-82	32	7	39	5	na	na	5	44	5	1	6
1980-81	24	6	30	5	na	na	5	35	4	1	5
1979-80	28	9	37	5	na	na	5	42	5	a	5
1978-79	22	9	31	3	na	na	3	34	3	a	3
1977-78	26	8	34	1	na	na	1	35	3	na	3
State-owned											
Bloomsburg											
1981-82	115	63	178	9	na	na	9	187	15	4	19
1980-81	112	65	177	11	na	na	11	188	15	5	20
1979-80	112	64	176	12	na	na	12	188	13	6	19
1978-79	106	66	172	10	na	na	10	182	12	5	17
1977-78	108	66	174	12	na	na	12	186	12	6	18
California											
1981-82	95	31	126	8	na	na	8	134	14	3	17
1980-81	85	31	116	9	na	na	9	125	11	3	14
1979-80	80	32	112	8	na	na	8	120	9	3	12
1978-79	81	34	115	9	na	na	9	124	9	3	12
1977-78	89	33	122	10	na	na	10	132	12	4	16
Cheyney											
1981-82	44	16	60	2	na	na	2	62	3	a	3
1980-81	46	16	62	2	na	na	2	64	3	1	4
1979-80	49	19	68	2	na	na	2	70	3	1	4
1978-79	49	18	67	2	na	na	2	69	3	1	4
1977-78	59	20	79	3	na	na	3	82	4	1	5
Clarion											
1981-82	117	42	159	5	na	na	5	164	11	2	13
1980-81	112	39	151	5	na	na	5	156	9	2	11
1979-80	113	40	153	5	na	na	5	158	9	2	11
1978-79	106	43	149	6	na	na	6	155	9	2	11
1977-78	103	41	144	6	na	na	6	150	6	2	8
East Stroudsburg											
1981-82	81	32	113	7	na	na	7	120	10	4	14
1980-81	78	34	112	9	na	na	9	121	10	5	15
1979-80	80	34	114	8	na	na	8	122	10	4	14
1978-79	77	34	111	8	na	na	8	119	8	5	13
1977-78	79	38	117	9	na	na	9	126	10	6	16
Edinboro											
1981-82	112	45	157	9	na	na	9	166	11	4	15
1980-81	108	45	153	11	na	na	11	164	12	4	16
1979-80	104	45	149	10	na	na	10	159	10	4	14
1978-79	103	49	152	11	na	na	11	163	b	b	b
1977-78	104	54	158	12	na	na	12	170	b	b	b
Indiana											
1981-82	242	122	364	18	na	c	18	382	33	6	39
1980-81	235	119	354	19	na	c	19	373	35	u	41
1979-80	236	112	348	20	na	c	20	368	b	b	b
1978-79	229	115	344	19	na	c	19	363	29	8	37
1977-78	221	112	333	19	na	c	19	352	25	7	32
Kutztown											
1981-82	95	46	141	6	na	na	6	147	7	2	9
1980-81	91	43	134	7	na	na	7	141	6	3	9
1979-80	85	42	127	7	na	na	7	134	5	3	8
1978-79	83	43	126	7	na	na	7	133	5	3	8
1977-78	82	46	128	8	na	na	8	136	6	3	9
Lock Haven											
1981-82	60	17	77	na	na	na	na	77	3	na	3
1980-81	60	16	76	na	na	na	na	76	3	na	3
1979-80	56	18	72	na	na	na	na	72	3	na	3
1978-79	51	16	67	na	na	na	na	67	4	na	4
1977-78	52	19	71	na	na	na	na	71	5	na	5
Mansfield											
1981-82	54	19	73	3	na	na	3	76	5	1	6
1980-81	50	20	70	3	na	na	3	73	4	2	6
1979-80	51	20	71	4	na	na	4	75	4	1	5
1978-79	46	22	68	3	na	na	3	71	3	1	4
1977-78	51	23	74	3	na	na	3	77	4	1	5
Millersville											
1981-82	128	32	160	14	na	na	14	174	14	9	23
1980-81	124	32	156	15	na	na	15	171	15	9	24
1979-80	116	32	148	15	na	na	15	163	13	9	22
1978-79	114	32	146	16	na	na	16	162	13	9	22
1977-78	113	35	148	17	na	na	17	165	15	9	24
Shippensburg											
1981-82	109	39	148	12	na	na	12	160	10	5	15
1980-81	107	41	148	13	na	na	13	161	11	5	16
1979-80	109	39	148	14	na	na	14	162	11	6	17
1978-79	108	35	143	15	na	na	15	158	8	6	14
1977-78	107	38	145	16	na	na	16	161	8	7	15
Slippery Rock											
1981-82	118	40	158	7	na	na	7	165	9	2	11
1980-81	114	41	155	7	na	na	7	162	9	3	12
1979-80	111	44	155	9	na	na	9	164	9	3	12
1978-79	111	45	156	8	na	na	8	164	9	3	12
1977-78	118	46	164	9	na	na	9	173	11	3	14
West Chester											
1981-82	166	64	230	16	na	na	16	246	18	6	24
1980-81	157	66	223	18	na	na	18	241	19	7	26
1979-80	156	68	224	18	na	na	18	242	18	6	24
1978-79	151	69	220	18	na	na	18	238	17	7	24
1977-78	146	77	223	19	na	na	19	242	17	8	25

1. Data for each year represent the summer term preceding the academic year plus the academic year.

2. Edinboro student credit-hour data for fiscal years 1977-78 and 1978-79 and Indiana University data for fiscal year 1979-80 from "State College and University Budgeting System Common Cost Accounting Reports."

a. Rounds to less than 1,000.

b. Data not available by terms.

c. Included in master's level.

na. Not applicable.

SOURCE: Reports provided by the individual institutions, 1977 to 1982.

Appendix Table 3A

TOTAL STUDENT CREDIT-HOUR PRODUCTION
BY LEVEL AND SELECTED HEGIS CLASSIFICATION
1981-82
(Credit hours in 000s)

HEGIS classification and level	State-related							State-owned										
	Penn State	Pittsburgh	Temple	Lincoln	Bloomsburg	California	Cheyney	Clarion	East Stroudsburg	Edinboro	Indiana	Kutztown	Lock Haven	Mansfield	Millersville	Shippensburg	Slippery Rock	West Chester
All areas ¹																		
Lower division	1,033.1	412.3	276.8	31.9	115.2	94.5	44.3	117.1	81.6	111.6	242.1	95.4	60.6	53.8	128.2	109.2	118.0	165.7
Upper division	563.7	216.7	233.4	7.1	63.1	31.3	15.8	41.6	31.7	44.8	122.1	45.9	16.7	19.4	32.3	38.9	40.4	64.1
Graduate	111.5	196.5	201.6	5.4	8.9	8.3	1.9	4.9	6.6	9.5	17.5	6.1	--	2.7	14.4	12.5	6.8	16.6
Biological sciences																		
Lower division	53.6	13.0	5.6	2.3	6.1	4.1	2.0	4.8	6.4	6.4	16.9	4.6	2.1	3.3	5.8	7.1	7.1	6.9
Upper division	24.5	9.4	4.0	.3	1.9	1.8	.8	1.5	1.8	.7	1.7	1.9	.4	.7	1.7	1.1	.5	2.4
Graduate	5.1	2.4	1.3	--	.1	.2	a	.6	.4	.3	.2	.2	--	--	.4	.2	.2	.3
Business and management																		
Lower division	57.2	6.7	36.5	1.9	9.2	10.1	4.7	24.3	.2	9.8	18.2	8.6	--	--	6.8	14.9	4.4	4.8
Upper division	95.2	17.4	47.6	1.8	22.0	4.4	2.3	18.7	1.1	4.9	38.4	4.5	--	--	1.5	15.6	7.1	8.5
Graduate	10.7	25.8	26.4	--	.5	--	--	.8	--	.1	2.9	a	--	--	--	2.6	--	--
Communications																		
Lower division	.6	.2	14.8	--	--	--	--	2.8	.1	--	.7	1.3	--	--	.2	2.3	--	--
Upper division	12.0	.8	14.8	--	--	--	--	2.2	--	--	2.3	1.0	--	--	--	2.5	--	--
Graduate	.2	--	2.5	--	--	--	--	.6	--	--	--	.1	--	--	--	.3	--	--
Computer and information sciences																		
Lower division	19.0	19.7	4.9	--	--	--	.8	2.9	2.1	--	5.8	a	--	5.8	5.1	--	3.3	--
Upper division	18.5	8.1	6.9	--	--	--	a	.2	.7	--	2.3	.3	--	2.2	1.5	--	.3	--
Graduate	2.1	7.2	3.6	--	--	--	--	--	--	--	.2	--	--	--	.3	--	--	--
Education																		
Lower division	60.1	9.5	20.0	4.7	12.9	13.0	6.5	7.9	14.3	9.4	18.5	10.9	9.9	9.4	17.2	8.3	14.2	20.0
Upper division	38.8	13.2	23.9	.9	17.4	14.3	4.7	10.3	16.2	11.8	23.9	22.9	9.6	7.7	10.9	6.0	13.7	21.9
Graduate	21.4	37.6	39.5	--	7.6	6.4	1.7	1.5	5.4	5.1	8.4	3.1	--	2.3	9.0	5.9	5.2	7.3
Fine and applied arts																		
Lower division	47.5	19.3	21.3	1.8	5.1	5.0	1.4	9.9	5.8	13.4	16.8	6.6	3.3	--	11.7	4.6	7.8	15.7
Upper division	20.9	9.4	21.0	.2	3.4	.3	.7	1.2	.8	4.9	5.4	.6	.9	--	2.3	.9	.6	4.1
Graduate	2.2	2.4	6.9	--	.1	a	--	--	a	.6	1.0	a	--	--	.6	a	a	1.4
Foreign languages																		
Lower division	41.9	19.1	6.4	1.9	4.1	2.1	1.0	2.3	2.2	2.3	13.6	3.4	2.3	1.5	5.5	2.2	3.3	6.9
Upper division	8.3	5.2	4.9	.2	.1	a	a	.1	.2	.5	1.1	.3	.2	.1	1.7	.1	.3	1.2
Graduate	2.0	1.6	.8	--	--	--	--	--	--	--	a	.1	--	--	.7	--	--	.3
Health professions																		
Lower division	1.4	7.7	1.6	--	2.0	--	--	--	.4	1.3	.7	--	--	--	--	--	3.0	1.0
Upper division	10.2	25.5	10.6	--	2.8	--	--	--	.9	3.5	6.7	.4	--	--	.9	--	4.7	2.9
Graduate	.7	40.3	62.6	--	--	--	--	--	--	.3	--	--	--	--	--	--	.2	.8
Home Economics																		
Lower division	14.2	--	--	--	--	--	.3	--	--	.4	5.8	--	--	1.3	--	--	--	--
Upper division	19.5	--	--	--	--	--	.6	--	--	.2	7.7	--	--	1.7	--	--	--	--
Graduate	2.3	--	--	--	--	--	--	--	--	.4	--	--	--	a	--	--	--	--
Letters																		
Lower division	168.8	52.8	47.0	6.6	20.0	15.3	6.5	15.3	13.2	19.6	40.7	16.3	12.9	9.8	18.5	15.8	26.6	33.6
Upper division	38.1	22.0	21.8	.6	3.1	2.3	.9	1.5	1.9	7.1	3.3	2.3	.9	2.5	2.1	.7	2.2	3.5
Graduate	5.6	4.5	6.0	--	.3	.3	a	.1	--	.3	1.1	.3	--	--	.5	.3	.4	1.2
Mathematics																		
Lower division	136.0	57.7	25.8	5.5	11.6	14.6	6.2	10.2	5.3	18.0	22.2	8.1	7.8	5.8	12.1	12.2	8.5	20.4
Upper division	14.0	6.5	7.1	.1	.5	1.5	.3	.5	.4	.6	1.4	2.1	1.2	.3	.8	2.2	.2	2.0
Graduate	3.7	2.1	1.0	--	.1	.2	--	a	.1	.1	.7	.1	--	--	.2	.3	--	1.0
Physical sciences																		
Lower division	124.4	53.8	15.4	2.1	9.3	4.4	2.6	5.1	8.6	13.7	17.7	4.4	2.5	3.0	14.1	4.7	9.0	13.5
Upper division	28.5	7.4	7.4	.7	.8	.8	.4	.4	.9	1.2	2.1	1.1	.1	.4	1.6	.9	1.0	2.5
Graduate	15.9	7.1	2.3	--	.1	--	--	--	--	.4	.2	--	--	.1	.2	a	.2	.9
Psychology																		
Lower division	34.0	31.3	12.1	.8	9.2	5.6	1.5	5.5	4.0	8.0	8.9	6.9	4.8	3.2	5.1	6.8	5.3	6.4
Upper division	10.6	12.9	8.3	.7	1.4	2.6	2.5	2.3	.9	3.1	4.5	2.8	.8	1.0	2.9	2.6	1.4	3.0
Graduate	3.6	2.6	3.1	--	a	.4	.1	--	a	2.1	1.0	1.7	--	.4	2.1	.8	.1	1.8
Public affairs and services																		
Lower division	7.7	.2	10.5	--	--	.7	--	--	.6	--	--	--	--	1.3	.6	2.2	5.0	11.7
Upper division	22.6	7.3	10.8	--	--	.9	--	--	.8	--	--	--	--	.6	1.1	2.1	4.2	7.5
Graduate	5.9	18.9	8.0	5.4	--	--	--	--	--	--	--	--	--	--	--	--	.4	1.4
Social sciences																		
Lower division	120.3	82.0	26.9	4.1	25.5	15.2	7.0	20.0	18.3	9.0	51.9	23.5	14.8	7.8	25.2	27.5	19.6	24.9
Upper division	50.7	27.2	23.1	1.7	9.3	2.1	2.4	2.2	5.0	6.1	20.6	5.1	2.6	2.2	2.4	3.7	3.8	4.3
Graduate	6.6	5.5	4.5	--	.1	.8	a	--	.6	.1	1.6	.2	--	a	.4	1.7	.1	.2
All other areas																		
Lower division	146.5 ^b	39.2 ^c	28.0 ^d	--	.1	4.5	3.5	5.9	.2	.1	3.6	.7	.1	1.7	.4	.6	1.1	a
Upper division	151.3 ^b	44.5 ^c	21.3 ^d	--	.2	.2	.3	.6	.2	.1	.7	.6	.1	.1	.9	.4	--	a
Graduate	23.6 ^b	38.5 ^c	33.0 ^d	--	--	--	--	1.1	.1	--	--	.4	--	--	a	.4	--	--

1. Because of rounding, HEGIS detail may not sum to total of all areas.

a. Rounds to less than 100 student credit hours.

b. Undergraduate level includes credit hours of 135,300 in engineering, 28,200 in agriculture and natural resources and 13,600 in architecture and environmental design. Graduate level includes 16,700 in engineering, 3,900 in agriculture and natural resources and 800 in architecture and environmental design.

c. Undergraduate level includes credit hours of 57,300 in engineering. Graduate level includes 15,200 in engineering and 19,200 in law.

d. Undergraduate level includes credit hours of 23,700 in engineering and 6,300 in law. Graduate level includes 400 in engineering and 32,000 in law.

SOURCE: Student credit-hour reports provided by the individual institutions, 1982.

Appendix Table 4A

DEGREES CONFERRED BY HEGIS CLASSIFICATION AND LEVEL¹
1981-82

HEGIS classification	State-related				State-owned													
	Penn State	Pittsburgh	Temple	Lincoln	Bloomsburg	California	Cheyney	Clarion	East Stroudsburg	Edinboro	Indiana	Kutztown	Lock Haven	Mansfield	Millersville	Shippensburg	Slippery Rock	West Chester
Agriculture and natural resources																		
Bachelor's	683	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Graduate	76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Architecture and environmental design																		
Bachelor's	109	--	--	--	--	--	--	--	--	5	--	--	--	--	--	--	--	--
Graduate	27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Area studies																		
Bachelor's	9	1	12	--	2	--	--	--	--	--	--	4	--	--	--	--	--	2
Graduate	9	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Biological sciences																		
Bachelor's	351	113	67	10	29	22	14	32	51	20	52	8	10	13	49	38	18	12
Graduate	81	19	11	--	1	2	--	7	6	5	8	8	--	--	9	12	7	5
Business and management																		
Bachelor's	1,658	300	620	50	426	83	93	322	19	95	528	159	19	42	127	357	112	185
Graduate	136	404	315	--	13	--	--	17	--	--	94	--	--	--	--	54	--	--
Communications																		
Bachelor's	302	26	331	--	39	11	1	68	17	--	86	26	10	--	5	128	3	3
Graduate	10	--	22	--	4	4	--	10	--	--	11	--	--	--	19	--	--	--
Computer and information sciences																		
Bachelor's	179	240	120	--	58	10	3	72	22	18	115	9	30	8	50	46	15	20
Graduate	36	133	46	--	--	--	--	--	--	--	--	--	--	--	--	7	--	--
Education																		
Bachelor's	570	185	283	11	298	244	72	190	261	204	364	217	167	116	320	105	322	438
Graduate	417	569	698	--	186	126	31	34	68	127	180	77	--	47	113	131	102	147
Engineering																		
Bachelor's	1,564	572	199	--	--	43	--	--	--	--	--	--	--	--	--	--	--	--
Graduate	269	191	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fine and applied arts																		
Bachelor's	131	36	217	--	12	17	13	21	11	82	69	111	5	13	39	11	11	37
Graduate	25	22	96	--	2	--	--	--	--	1	20	--	--	4	--	--	--	5
Foreign languages																		
Bachelor's	66	27	22	4	4	1	--	7	3	5	24	9	1	--	25	5	3	10
Graduate	16	24	8	--	--	--	--	--	--	--	--	3	--	--	9	--	--	1
Health professions																		
Bachelor's	335	413	320	--	98	21	--	39	20	51	164	15	--	3	41	3	47	104
Graduate	17	465	252	--	--	--	--	19	--	27	--	--	--	--	--	--	--	17
Home economics																		
Bachelor's	457	--	--	--	--	--	13	--	--	3	214	--	--	35	--	--	--	--
Graduate	32	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--
Law																		
Bachelor's	--	--	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Graduate	--	207	357	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Letters																		
Bachelor's	275	341	87	7	14	35	10	18	18	49	26	12	12	25	39	17	79	66
Graduate	46	57	49	--	7	1	1	4	--	6	27	7	--	--	8	12	12	10
Library science																		
Bachelor's	--	--	--	--	--	--	--	6	--	--	--	13	--	--	--	--	8	--
Graduate	--	127	--	--	--	--	--	28	--	--	--	11	--	--	--	6	--	--
Mathematics																		
Bachelor's	50	43	21	6	13	2	6	11	6	6	30	7	3	8	24	18	5	5
Graduate	41	18	5	--	--	4	--	2	--	--	11	4	--	--	5	7	--	2
Physical sciences																		
Bachelor's	388	145	33	8	23	27	9	16	10	39	36	14	2	13	53	20	14	26
Graduate	132	74	32	--	1	4	--	--	--	3	9	--	--	--	4	1	2	8
Psychology																		
Bachelor's	167	274	119	12	32	17	16	34	30	59	54	25	19	17	71	49	23	31
Graduate	48	15	54	--	--	--	--	--	--	12	24	21	--	7	26	2	--	31
Public affairs and services																		
Bachelor's	467	164	232	--	--	56	16	--	20	56	73	59	35	61	38	124	150	115
Graduate	176	306	182	74	--	--	--	--	--	--	--	--	--	--	40	11	17	--
Social sciences																		
Bachelor's	407	445	307	38	98	58	35	20	120	57	302	39	19	23	58	65	100	55
Graduate	75	70	38	--	6	8	--	--	8	5	49	4	--	1	6	9	3	7
Interdisciplinary studies																		
Bachelor's	217	133	19	--	1	31	7	1	18	19	1	10	49	4	--	32	19	1
Graduate	53	9	--	--	--	--	--	--	2	--	4	--	--	--	--	21	--	--
All classifications																		
Bachelor's	8,385	3,458	3,028	146	1,147	678	308	857	626	763	2,143	733	385	381	939	1,018	929	1,110
Graduate	1,722	2,713	2,165	74	220	149	32	121	84	188	437	135	--	59	220	292	143	233

1. The graduate level includes master's degrees at all institutions except Lock Haven, which does not have a master's program, first professional (excluding medical) and doctor's at Shippensburg and Temple and doctor's at Penn State and Indiana University.

SOURCE: Data obtained from Pennsylvania Department of Education, Division of Education Statistics, December, 1982.

Appendix Table 5A

AVERAGE WEEKLY CLASSROOM CONTACT HOURS REPORTED BY FULL-TIME FACULTY TEACHING IN FALL TERM
1977 to 1981

Institution	Full-time head count					Average undergraduate contact hours					Average graduate contact hours				
	1981	1980	1979	1978	1977	1981	1980	1979	1978	1977	1981	1980	1979	1978	1977
State-related															
Penn State	2,660	2,602	2,621	a	a	8.3	8.4	8.5	a	a	1.9	1.9	1.9	a	a
Pittsburgh	1,499	1,530	1,546	1,608	1,612	5.5	5.2	5.1	5.3	5.3	4.2	4.3	4.2	4.2	4.4
Temple	1,232	1,248	1,310	1,330	1,339	5.6	6.5	6.5	6.2	6.3	3.8	4.0	3.9	3.8	3.9
Lincoln	71	76	72	78	76	11.0	10.2	10.7	11.1	11.2	1.1	1.3	1.1	.7	na
State-owned															
Bloomsburg	312	312	308	307	291	10.9	11.0	11.8	11.6	12.0	.7	.8	.8	.6	.8
California	266	284	299	307	313	10.0	10.2	8.8	8.8	8.7	.8	.9	.8	1.0	1.0
Cheyney ¹	174	167	177	181	185	11.2	11.5	10.8	10.5	11.2	.6	.6	.8	1.1	1.4
Clarion	288	302	306	308	298	10.8	10.5	9.5	9.4	10.5	.5	.6	.6	.6	.7
East Stroudsburg	224	220	219	218	222	10.3	10.5	11.0	10.9	10.9	.6	.6	.6	.5	.5
Edinboro	342	341	383	384	403	10.9	11.3	11.9	12.0	12.1	1.0	1.0	1.0	1.0	.8
Indiana	613	599	603	574	560	11.5	11.8	11.7	11.5	11.6	1.1	1.0	1.2	1.1	1.0
Kutztown	297	283	295	294	293	11.9	11.7	12.2	11.1	11.3	.4	.5	.5	.6	.6
Lock Haven	161	161	168	159	167	11.7	11.7	11.7	11.7	11.9	na	na	na	na	na
Mansfield	164	158	187	191	193	10.0	10.2	10.2	10.4	10.4	.4	.5	.4	.3	.4
Millersville	289	291	296	292	296	11.1	10.8	10.7	10.6	10.8	.7	.7	.7	.7	.7
Shippensburg	289	292	294	298	298	9.1	9.2	9.4	9.1	9.0	.9	1.0	1.0	1.1	1.0
Slippery Rock	323	315	334	339	323	11.5	a	a	a	a	.6	a	a	a	a
West Chester	453	467	484	483	449	10.9	10.9	11.4	10.7	11.8	1.1	1.1	1.1	1.1	1.2

1. At least 25 percent of Cheyney's full-time faculty each year did not submit a report of hours spent in work-related activities; for fall term 1981, 34 percent did not report.

a. Noncomparable data reported.

na. Not applicable.

SOURCE: Reports of average weekly hours of work-related activities provided by the individual institutions, 1978 to 1982.

Appendix Table 6A

AVERAGE SALARY OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY AND PERCENTAGE DISTRIBUTION BY RANK¹
1980-81 and 1981-82
(Dollar amounts in 000s)

Institution	FTE instructional faculty	Average instructional salary		Professor		Associate professor		Assistant professor		Instructor		Nonranked	
		Amount	Percentage increase	Average salary	Percentage of faculty	Average salary	Percentage of faculty	Average salary	Percentage of faculty	Average salary	Percentage of faculty	Average salary	Percentage of faculty
State-related													
Penn State													
1981-82	2,746	\$23.8	9	\$34.9	17%	\$26.7	20%	\$21.0	30%	\$15.9	14%	\$20.4	19
1980-81	2,701	21.9		32.2	17	24.8	21	19.1	30	14.2	14	19.1	18
Pittsburgh													
1981-82	1,824	22.7	9	33.6	18	24.4	27	19.0	20	13.1	12	20.3	23
1980-81	1,832	20.8		30.8	18	22.2	26	17.5	21	12.4	11	18.4	24
Temple													
1981-82	1,666	22.0	4	34.7	25	25.6	24	19.6	20	11.6	14	9.7	17
1980-81	1,741	21.3		33.6	26	24.9	23	17.9	21	10.3	14	10.3	16
Lincoln													
1981-82	97	17.7	2	26.0	16	19.9	16	16.0	38	15.2	18	13.1	12
1980-81	95	17.3		22.7	16	19.0	19	16.7	35	14.2	20	13.5	10
State-owned													
Bloomsburg													
1981-82	336	25.1	6	30.9	30	25.6	37	20.0	26	15.5	7	na	0
1980-81	335	23.6		29.0	30	24.0	40	18.4	25	13.9	5	na	0
California													
1981-82	241	28.5	6	32.3	44	26.4	42	22.8	12	18.6	1	30.7	1
1980-81	264	26.8		30.4	43	25.3	42	20.7	13	16.9	1	27.4	1
Chayney													
1981-82	144	27.5	b	32.5	30	26.8	55	22.8	8	18.2	7	9.6	a
1980-81	163	c		c	31	c	54	c	8	c	7	c	a
Clarion													
1981-82	289	25.5	5	31.7	31	25.6	34	21.0	25	16.8	10	28.5	a
1980-81	288	24.4		30.1	31	24.3	37	20.2	22	15.2	10	30.1	a
East Stroudsburg													
1981-82	223	25.8	7	30.5	39	25.1	37	20.5	19	14.1	5	31.9	a
1980-81	216	24.2		29.3	37	23.5	38	19.2	21	10.5	4	35.0	a
Edinboro													
1981-82	340	27.0	7	31.8	36	26.2	37	22.0	25	18.2	2	na	0
1980-81	334	25.3		29.4	37	24.8	36	20.5	25	19.1	2	23.9	a
Indiana													
1981-82	681	25.3	5	29.9	38	25.0	31	20.6	23	18.6	8	20.0	a
1980-81	649	24.0		28.7	38	23.1	34	19.4	23	15.8	5	17.5	a
Kutztown													
1981-82	268	27.7	6	32.8	37	27.0	38	22.1	18	18.2	7	25.0	a
1980-81	265	26.1		30.7	35	26.2	39	21.2	19	16.3	7	28.8	a
Lock Haven													
1981-82	147	27.6	7	32.9	33	26.8	46	22.3	17	17.0	4	32.9	a
1980-81	146	25.7		31.0	31	25.1	47	20.5	18	15.6	4	na	0
Mansfield													
1981-82	160	25.9	3	33.1	26	27.0	37	22.0	25	16.0	12	na	0
1980-81	154	25.2		31.4	28	26.5	36	20.8	26	15.0	10	na	0
Millersville													
1981-82	318	25.1	b	30.2	32	24.8	41	20.3	21	14.9	6	16.2	a
1980-81	b	b		b	b	b	b	b	b	b	b	b	b
Shippensburg													
1981-82	287	26.5	6	31.6	38	25.9	31	21.3	25	17.5	6	na	0
1980-81	284	25.0		30.0	37	24.5	33	20.2	26	16.5	4	23.8	a
Slippery Rock													
1981-82	306	26.7	7	31.7	40	26.8	29	21.6	21	17.2	10	23.4	a
1980-81	295	24.9		30.0	39	24.9	30	19.9	21	16.2	10	22.4	a
West Chester													
1981-82	458	25.5	6	31.3	29	25.9	39	21.0	23	15.7	8	27.0	1
1980-81	468	24.0		29.4	29	24.4	39	19.8	23	15.0	9	25.7	a

1. Average salary is calculated by dividing the total instructional salary paid to all staff members in the respective rank categories by the total full-time equivalency in the instructional function. One full-time equivalent faculty represents one full-time workload for two terms (one academic year). The summer term is treated as one term or one-half the academic year. Data for each year represent the summer term preceding the academic year plus the academic year.

2. The full-time equivalency of nonranked faculty members is based on the time spent in instruction of all nonranked personnel, including lecturers, administrators, librarians, research staff and graduate assistants.

- a. Rounds to less than 1 percent.
- b. Noncomparable data reported.
- c. Incomplete salary data submitted.
- na. Not applicable.

SOURCE: Salary reports provided by the individual institutions, 1981 and 1982.

Appendix Table 7A
 INSTRUCTIONAL FACULTY SALARY COST PER STUDENT CREDIT HOUR BY LEVEL AND SELECTED HEGIS CLASSIFICATION¹
 1981-82

HEGIS classification and level	State-related					State-owned																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	Penn State	Pittsburgh ²	Temple ³	Lincoln	Bloomsburg	California	Cheyney	Clarion	East Stroudsburg	Edinboro	Indiana	Kutztown	Lock Haven	Mansfield	Millersville	Shippensburg	Stripperry Rock	West Chester																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
All instruction ⁴																			Lower division	\$23	\$25	\$32	\$31	\$37	\$39	\$55	\$36	\$37	\$44	\$31	\$36	\$46	\$39	\$37	\$38	\$39	\$33	Upper division	39	53	51	67	55	70	78	60	73	73	59	75	77	94	69	58	71	69	Master's	94	104	95	48	75	117	157	146	65	107	146	82	--	85	71	91	105	104	Doctor's	232	188	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Biological sciences																			Lower division	18	35	11	29	40	57	60	31	26	56	37	26	66	31	43	44	40	36	Upper division	35	37	30	87	95	111	112	86	107	139	130	88	175	125	78	94	148	67	Master's	132	267	87	--	199	333	95	263	52	148	453	186	--	--	144	179	301	163	Doctor's	245	374	415	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Business and management																			Lower division	14	30	31	24	30	17	37	20	31	28	21	26	--	--	24	29	22	27	Upper division	25	25	37	40	34	32	34	31	40	45	28	34	--	--	29	40	27	33	Master's	58	40	76	--	80	--	--	87	--	145	82	217	--	--	--	52	--	--	Doctor's	198	302	319	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Communications																			Lower division	26	--	20	--	--	--	--	28	105	--	34	33	--	--	39	42	--	--	Upper division	40	35	34	--	--	--	--	58	--	--	56	62	--	--	--	51	--	--	Master's	150	--	126	--	--	--	--	105	--	--	--	109	--	--	--	95	--	--	Doctor's	95	--	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Computer and information sciences																			Lower division	22	21	38	--	--	--	48	35	32	--	20	75	--	28	30	--	35	--	Upper division	28	26	50	--	--	--	115	67	54	--	52	79	--	37	44	--	71	--	Master's	60	40	61	--	--	--	--	--	--	--	154	--	--	--	53	--	--	--	Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lower division	\$23	\$25	\$32	\$31	\$37	\$39	\$55	\$36	\$37	\$44	\$31	\$36	\$46	\$39	\$37	\$38	\$39	\$33	Upper division	39	53	51	67	55	70	78	60	73	73	59	75	77	94	69	58	71	69	Master's	94	104	95	48	75	117	157	146	65	107	146	82	--	85	71	91	105	104	Doctor's	232	188	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Biological sciences																			Lower division	18	35	11	29	40	57	60	31	26	56	37	26	66	31	43	44	40	36	Upper division	35	37	30	87	95	111	112	86	107	139	130	88	175	125	78	94	148	67	Master's	132	267	87	--	199	333	95	263	52	148	453	186	--	--	144	179	301	163	Doctor's	245	374	415	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Business and management																			Lower division	14	30	31	24	30	17	37	20	31	28	21	26	--	--	24	29	22	27	Upper division	25	25	37	40	34	32	34	31	40	45	28	34	--	--	29	40	27	33	Master's	58	40	76	--	80	--	--	87	--	145	82	217	--	--	--	52	--	--	Doctor's	198	302	319	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Communications																			Lower division	26	--	20	--	--	--	--	28	105	--	34	33	--	--	39	42	--	--	Upper division	40	35	34	--	--	--	--	58	--	--	56	62	--	--	--	51	--	--	Master's	150	--	126	--	--	--	--	105	--	--	--	109	--	--	--	95	--	--	Doctor's	95	--	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Computer and information sciences																			Lower division	22	21	38	--	--	--	48	35	32	--	20	75	--	28	30	--	35	--	Upper division	28	26	50	--	--	--	115	67	54	--	52	79	--	37	44	--	71	--	Master's	60	40	61	--	--	--	--	--	--	--	154	--	--	--	53	--	--	--	Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																			
Upper division	39	53	51	67	55	70	78	60	73	73	59	75	77	94	69	58	71	69	Master's	94	104	95	48	75	117	157	146	65	107	146	82	--	85	71	91	105	104	Doctor's	232	188	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Biological sciences																			Lower division	18	35	11	29	40	57	60	31	26	56	37	26	66	31	43	44	40	36	Upper division	35	37	30	87	95	111	112	86	107	139	130	88	175	125	78	94	148	67	Master's	132	267	87	--	199	333	95	263	52	148	453	186	--	--	144	179	301	163	Doctor's	245	374	415	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Business and management																			Lower division	14	30	31	24	30	17	37	20	31	28	21	26	--	--	24	29	22	27	Upper division	25	25	37	40	34	32	34	31	40	45	28	34	--	--	29	40	27	33	Master's	58	40	76	--	80	--	--	87	--	145	82	217	--	--	--	52	--	--	Doctor's	198	302	319	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Communications																			Lower division	26	--	20	--	--	--	--	28	105	--	34	33	--	--	39	42	--	--	Upper division	40	35	34	--	--	--	--	58	--	--	56	62	--	--	--	51	--	--	Master's	150	--	126	--	--	--	--	105	--	--	--	109	--	--	--	95	--	--	Doctor's	95	--	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Computer and information sciences																			Lower division	22	21	38	--	--	--	48	35	32	--	20	75	--	28	30	--	35	--	Upper division	28	26	50	--	--	--	115	67	54	--	52	79	--	37	44	--	71	--	Master's	60	40	61	--	--	--	--	--	--	--	154	--	--	--	53	--	--	--	Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																						
Master's	94	104	95	48	75	117	157	146	65	107	146	82	--	85	71	91	105	104	Doctor's	232	188	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Biological sciences																			Lower division	18	35	11	29	40	57	60	31	26	56	37	26	66	31	43	44	40	36	Upper division	35	37	30	87	95	111	112	86	107	139	130	88	175	125	78	94	148	67	Master's	132	267	87	--	199	333	95	263	52	148	453	186	--	--	144	179	301	163	Doctor's	245	374	415	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Business and management																			Lower division	14	30	31	24	30	17	37	20	31	28	21	26	--	--	24	29	22	27	Upper division	25	25	37	40	34	32	34	31	40	45	28	34	--	--	29	40	27	33	Master's	58	40	76	--	80	--	--	87	--	145	82	217	--	--	--	52	--	--	Doctor's	198	302	319	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Communications																			Lower division	26	--	20	--	--	--	--	28	105	--	34	33	--	--	39	42	--	--	Upper division	40	35	34	--	--	--	--	58	--	--	56	62	--	--	--	51	--	--	Master's	150	--	126	--	--	--	--	105	--	--	--	109	--	--	--	95	--	--	Doctor's	95	--	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Computer and information sciences																			Lower division	22	21	38	--	--	--	48	35	32	--	20	75	--	28	30	--	35	--	Upper division	28	26	50	--	--	--	115	67	54	--	52	79	--	37	44	--	71	--	Master's	60	40	61	--	--	--	--	--	--	--	154	--	--	--	53	--	--	--	Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																									
Doctor's	232	188	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Biological sciences																			Lower division	18	35	11	29	40	57	60	31	26	56	37	26	66	31	43	44	40	36	Upper division	35	37	30	87	95	111	112	86	107	139	130	88	175	125	78	94	148	67	Master's	132	267	87	--	199	333	95	263	52	148	453	186	--	--	144	179	301	163	Doctor's	245	374	415	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Business and management																			Lower division	14	30	31	24	30	17	37	20	31	28	21	26	--	--	24	29	22	27	Upper division	25	25	37	40	34	32	34	31	40	45	28	34	--	--	29	40	27	33	Master's	58	40	76	--	80	--	--	87	--	145	82	217	--	--	--	52	--	--	Doctor's	198	302	319	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Communications																			Lower division	26	--	20	--	--	--	--	28	105	--	34	33	--	--	39	42	--	--	Upper division	40	35	34	--	--	--	--	58	--	--	56	62	--	--	--	51	--	--	Master's	150	--	126	--	--	--	--	105	--	--	--	109	--	--	--	95	--	--	Doctor's	95	--	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Computer and information sciences																			Lower division	22	21	38	--	--	--	48	35	32	--	20	75	--	28	30	--	35	--	Upper division	28	26	50	--	--	--	115	67	54	--	52	79	--	37	44	--	71	--	Master's	60	40	61	--	--	--	--	--	--	--	154	--	--	--	53	--	--	--	Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																												
Biological sciences																			Lower division	18	35	11	29	40	57	60	31	26	56	37	26	66	31	43	44	40	36	Upper division	35	37	30	87	95	111	112	86	107	139	130	88	175	125	78	94	148	67	Master's	132	267	87	--	199	333	95	263	52	148	453	186	--	--	144	179	301	163	Doctor's	245	374	415	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Business and management																			Lower division	14	30	31	24	30	17	37	20	31	28	21	26	--	--	24	29	22	27	Upper division	25	25	37	40	34	32	34	31	40	45	28	34	--	--	29	40	27	33	Master's	58	40	76	--	80	--	--	87	--	145	82	217	--	--	--	52	--	--	Doctor's	198	302	319	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Communications																			Lower division	26	--	20	--	--	--	--	28	105	--	34	33	--	--	39	42	--	--	Upper division	40	35	34	--	--	--	--	58	--	--	56	62	--	--	--	51	--	--	Master's	150	--	126	--	--	--	--	105	--	--	--	109	--	--	--	95	--	--	Doctor's	95	--	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Computer and information sciences																			Lower division	22	21	38	--	--	--	48	35	32	--	20	75	--	28	30	--	35	--	Upper division	28	26	50	--	--	--	115	67	54	--	52	79	--	37	44	--	71	--	Master's	60	40	61	--	--	--	--	--	--	--	154	--	--	--	53	--	--	--	Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																															
Lower division	18	35	11	29	40	57	60	31	26	56	37	26	66	31	43	44	40	36	Upper division	35	37	30	87	95	111	112	86	107	139	130	88	175	125	78	94	148	67	Master's	132	267	87	--	199	333	95	263	52	148	453	186	--	--	144	179	301	163	Doctor's	245	374	415	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Business and management																			Lower division	14	30	31	24	30	17	37	20	31	28	21	26	--	--	24	29	22	27	Upper division	25	25	37	40	34	32	34	31	40	45	28	34	--	--	29	40	27	33	Master's	58	40	76	--	80	--	--	87	--	145	82	217	--	--	--	52	--	--	Doctor's	198	302	319	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Communications																			Lower division	26	--	20	--	--	--	--	28	105	--	34	33	--	--	39	42	--	--	Upper division	40	35	34	--	--	--	--	58	--	--	56	62	--	--	--	51	--	--	Master's	150	--	126	--	--	--	--	105	--	--	--	109	--	--	--	95	--	--	Doctor's	95	--	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Computer and information sciences																			Lower division	22	21	38	--	--	--	48	35	32	--	20	75	--	28	30	--	35	--	Upper division	28	26	50	--	--	--	115	67	54	--	52	79	--	37	44	--	71	--	Master's	60	40	61	--	--	--	--	--	--	--	154	--	--	--	53	--	--	--	Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																		
Upper division	35	37	30	87	95	111	112	86	107	139	130	88	175	125	78	94	148	67	Master's	132	267	87	--	199	333	95	263	52	148	453	186	--	--	144	179	301	163	Doctor's	245	374	415	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Business and management																			Lower division	14	30	31	24	30	17	37	20	31	28	21	26	--	--	24	29	22	27	Upper division	25	25	37	40	34	32	34	31	40	45	28	34	--	--	29	40	27	33	Master's	58	40	76	--	80	--	--	87	--	145	82	217	--	--	--	52	--	--	Doctor's	198	302	319	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Communications																			Lower division	26	--	20	--	--	--	--	28	105	--	34	33	--	--	39	42	--	--	Upper division	40	35	34	--	--	--	--	58	--	--	56	62	--	--	--	51	--	--	Master's	150	--	126	--	--	--	--	105	--	--	--	109	--	--	--	95	--	--	Doctor's	95	--	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Computer and information sciences																			Lower division	22	21	38	--	--	--	48	35	32	--	20	75	--	28	30	--	35	--	Upper division	28	26	50	--	--	--	115	67	54	--	52	79	--	37	44	--	71	--	Master's	60	40	61	--	--	--	--	--	--	--	154	--	--	--	53	--	--	--	Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																					
Master's	132	267	87	--	199	333	95	263	52	148	453	186	--	--	144	179	301	163	Doctor's	245	374	415	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Business and management																			Lower division	14	30	31	24	30	17	37	20	31	28	21	26	--	--	24	29	22	27	Upper division	25	25	37	40	34	32	34	31	40	45	28	34	--	--	29	40	27	33	Master's	58	40	76	--	80	--	--	87	--	145	82	217	--	--	--	52	--	--	Doctor's	198	302	319	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Communications																			Lower division	26	--	20	--	--	--	--	28	105	--	34	33	--	--	39	42	--	--	Upper division	40	35	34	--	--	--	--	58	--	--	56	62	--	--	--	51	--	--	Master's	150	--	126	--	--	--	--	105	--	--	--	109	--	--	--	95	--	--	Doctor's	95	--	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Computer and information sciences																			Lower division	22	21	38	--	--	--	48	35	32	--	20	75	--	28	30	--	35	--	Upper division	28	26	50	--	--	--	115	67	54	--	52	79	--	37	44	--	71	--	Master's	60	40	61	--	--	--	--	--	--	--	154	--	--	--	53	--	--	--	Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																								
Doctor's	245	374	415	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Business and management																			Lower division	14	30	31	24	30	17	37	20	31	28	21	26	--	--	24	29	22	27	Upper division	25	25	37	40	34	32	34	31	40	45	28	34	--	--	29	40	27	33	Master's	58	40	76	--	80	--	--	87	--	145	82	217	--	--	--	52	--	--	Doctor's	198	302	319	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Communications																			Lower division	26	--	20	--	--	--	--	28	105	--	34	33	--	--	39	42	--	--	Upper division	40	35	34	--	--	--	--	58	--	--	56	62	--	--	--	51	--	--	Master's	150	--	126	--	--	--	--	105	--	--	--	109	--	--	--	95	--	--	Doctor's	95	--	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Computer and information sciences																			Lower division	22	21	38	--	--	--	48	35	32	--	20	75	--	28	30	--	35	--	Upper division	28	26	50	--	--	--	115	67	54	--	52	79	--	37	44	--	71	--	Master's	60	40	61	--	--	--	--	--	--	--	154	--	--	--	53	--	--	--	Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																											
Business and management																			Lower division	14	30	31	24	30	17	37	20	31	28	21	26	--	--	24	29	22	27	Upper division	25	25	37	40	34	32	34	31	40	45	28	34	--	--	29	40	27	33	Master's	58	40	76	--	80	--	--	87	--	145	82	217	--	--	--	52	--	--	Doctor's	198	302	319	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Communications																			Lower division	26	--	20	--	--	--	--	28	105	--	34	33	--	--	39	42	--	--	Upper division	40	35	34	--	--	--	--	58	--	--	56	62	--	--	--	51	--	--	Master's	150	--	126	--	--	--	--	105	--	--	--	109	--	--	--	95	--	--	Doctor's	95	--	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Computer and information sciences																			Lower division	22	21	38	--	--	--	48	35	32	--	20	75	--	28	30	--	35	--	Upper division	28	26	50	--	--	--	115	67	54	--	52	79	--	37	44	--	71	--	Master's	60	40	61	--	--	--	--	--	--	--	154	--	--	--	53	--	--	--	Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																														
Lower division	14	30	31	24	30	17	37	20	31	28	21	26	--	--	24	29	22	27	Upper division	25	25	37	40	34	32	34	31	40	45	28	34	--	--	29	40	27	33	Master's	58	40	76	--	80	--	--	87	--	145	82	217	--	--	--	52	--	--	Doctor's	198	302	319	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Communications																			Lower division	26	--	20	--	--	--	--	28	105	--	34	33	--	--	39	42	--	--	Upper division	40	35	34	--	--	--	--	58	--	--	56	62	--	--	--	51	--	--	Master's	150	--	126	--	--	--	--	105	--	--	--	109	--	--	--	95	--	--	Doctor's	95	--	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Computer and information sciences																			Lower division	22	21	38	--	--	--	48	35	32	--	20	75	--	28	30	--	35	--	Upper division	28	26	50	--	--	--	115	67	54	--	52	79	--	37	44	--	71	--	Master's	60	40	61	--	--	--	--	--	--	--	154	--	--	--	53	--	--	--	Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																	
Upper division	25	25	37	40	34	32	34	31	40	45	28	34	--	--	29	40	27	33	Master's	58	40	76	--	80	--	--	87	--	145	82	217	--	--	--	52	--	--	Doctor's	198	302	319	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Communications																			Lower division	26	--	20	--	--	--	--	28	105	--	34	33	--	--	39	42	--	--	Upper division	40	35	34	--	--	--	--	58	--	--	56	62	--	--	--	51	--	--	Master's	150	--	126	--	--	--	--	105	--	--	--	109	--	--	--	95	--	--	Doctor's	95	--	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Computer and information sciences																			Lower division	22	21	38	--	--	--	48	35	32	--	20	75	--	28	30	--	35	--	Upper division	28	26	50	--	--	--	115	67	54	--	52	79	--	37	44	--	71	--	Master's	60	40	61	--	--	--	--	--	--	--	154	--	--	--	53	--	--	--	Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																				
Master's	58	40	76	--	80	--	--	87	--	145	82	217	--	--	--	52	--	--	Doctor's	198	302	319	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Communications																			Lower division	26	--	20	--	--	--	--	28	105	--	34	33	--	--	39	42	--	--	Upper division	40	35	34	--	--	--	--	58	--	--	56	62	--	--	--	51	--	--	Master's	150	--	126	--	--	--	--	105	--	--	--	109	--	--	--	95	--	--	Doctor's	95	--	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Computer and information sciences																			Lower division	22	21	38	--	--	--	48	35	32	--	20	75	--	28	30	--	35	--	Upper division	28	26	50	--	--	--	115	67	54	--	52	79	--	37	44	--	71	--	Master's	60	40	61	--	--	--	--	--	--	--	154	--	--	--	53	--	--	--	Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																							
Doctor's	198	302	319	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Communications																			Lower division	26	--	20	--	--	--	--	28	105	--	34	33	--	--	39	42	--	--	Upper division	40	35	34	--	--	--	--	58	--	--	56	62	--	--	--	51	--	--	Master's	150	--	126	--	--	--	--	105	--	--	--	109	--	--	--	95	--	--	Doctor's	95	--	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Computer and information sciences																			Lower division	22	21	38	--	--	--	48	35	32	--	20	75	--	28	30	--	35	--	Upper division	28	26	50	--	--	--	115	67	54	--	52	79	--	37	44	--	71	--	Master's	60	40	61	--	--	--	--	--	--	--	154	--	--	--	53	--	--	--	Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																										
Communications																			Lower division	26	--	20	--	--	--	--	28	105	--	34	33	--	--	39	42	--	--	Upper division	40	35	34	--	--	--	--	58	--	--	56	62	--	--	--	51	--	--	Master's	150	--	126	--	--	--	--	105	--	--	--	109	--	--	--	95	--	--	Doctor's	95	--	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Computer and information sciences																			Lower division	22	21	38	--	--	--	48	35	32	--	20	75	--	28	30	--	35	--	Upper division	28	26	50	--	--	--	115	67	54	--	52	79	--	37	44	--	71	--	Master's	60	40	61	--	--	--	--	--	--	--	154	--	--	--	53	--	--	--	Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																													
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Computer and information sciences																			Lower division	22	21	38	--	--	--	48	35	32	--	20	75	--	28	30	--	35	--	Upper division	28	26	50	--	--	--	115	67	54	--	52	79	--	37	44	--	71	--	Master's	60	40	61	--	--	--	--	--	--	--	154	--	--	--	53	--	--	--	Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																												
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Upper division	28	26	50	--	--	--	115	67	54	--	52	79	--	37	44	--	71	--	Master's	60	40	61	--	--	--	--	--	--	--	154	--	--	--	53	--	--	--	Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Doctor's	167	210	92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Education																			Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Lower division	25	31	38	25	39	54	74	28	47	51	37	41	46	52	50	59	46	39	Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Upper division	71	67	59	52	60	72	80	74	69	76	85	74	67	106	66	61	79	68	Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Master's	79	66	93	--	65	96	160	141	55	86	113	75	--	84	62	102	86	80	Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Doctor's	207	122	172	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Fine and applied arts																			Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Lower division	20	29	49	46	35	44	80	50	44	57	38	29	73	--	42	39	53	45	Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Upper division	56	45	66	96	73	226	108	117	87	114	106	155	86	--	72	89	255	151	Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Master's	154	142	122	--	160	488	--	--	153	305	244	76	--	--	92	198	194	170	Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Doctor's	295	181	196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Foreign languages																			Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Lower division	28	41	47	30	66	66	87	63	84	55	39	56	66	47	57	68	52	43	Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Upper division	65	82	59	121	265	848	502	250	121	158	150	195	157	273	92	158	178	88	Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Master's	137	200	140	--	--	--	--	--	--	--	734	283	--	--	52	--	--	100	Doctor's	143	299	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Health professions																			Lower division	54	35	100	--	86	--	--	--	76	107	107	--	--	--	--	--	34	49	Upper division	53	108	186	--	99	--	--	--	138	76	55	181	--	--	44	--	61	101	Master's	96	234	287	--	--	--	--	--	--	193	--	--	--	--	--	--	122	124	Doctor's	298	486	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Home economics																			Lower division	13	--	--	--	--	--	63	--	--	13	29	--	--	46	--	--	--	--	Upper division	42	--	--	--	--	--	78	--	--	235	52	--	--	94	--	--	--	--	Master's	112	--	--	--	--	--	--	--	--	--	189	--	--	215	--	--	--	--	Doctor's	222	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Letters																			Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Lower division	26	30	30	34	36	46	61	41	36	39	34	47	50	40	37	46	40	38	Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Upper division	42	53	44	98	65	99	83	96	65	63	84	90	113	70	64	131	74	111	Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Master's	107	143	148	--	120	276	158	191	--	100	182	131	--	--	77	135	118	93	Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Doctor's	230	239	306	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Mathematics																			Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Lower division	20	22	29	23	35	26	37	40	34	34	36	38	41	41	30	32	32	26	Upper division	50	48	41	118	84	56	87	110	73	60	113	65	53	138	87	53	79	60	Master's	99	100	132	--	133	202	--	606	117	69	133	235	--	--	111	76	--	95	Doctor's	271	289	538	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Physical sciences																			Lower division	23	22	25	46	55	64	62	75	40	56	45	34	64	58	26	52	49	31	Upper division	32	55	33	62	112	130	119	266	152	95	134	170	361	308	155	145	160	97	Master's	122	211	129	--	162	--	--	--	--	44	749	--	--	39	201	231	94	173	Doctor's	234	274	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Psychology																			Lower division	13	13	25	33	29	30	57	23	30	35	24	31	35	29	35	29	29	30	Upper division	50	41	39	77	56	40	66	63	92	47	60	57	92	80	52	55	72	47	Master's	108	208	89	--	126	153	98	--	246	80	170	52	--	78	72	64	97	95	Doctor's	205	250	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Public affairs and services																			Lower division	18	55	36	--	--	45	--	--	43	--	--	--	--	25	33	31	29	23	Upper division	49	51	38	--	--	40	--	--	67	--	--	--	--	64	75	74	57	48	Master's	65	82	58	48	--	--	--	--	--	--	--	--	--	--	--	--	188	84	Doctor's	203	125	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Social sciences																			Lower division	20	23	28	33	29	44	54	30	26	33	21	33	35	33	34	33	31	27	Upper division	37	57	43	71	58	83	100	89	57	60	51	75	71	88	75	76	87	53	Master's	113	153	132	--	241	118	213	--	162	275	202	186	--	385	131	110	207	277	Doctor's	294	232	217	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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1. The instructional faculty salary cost per student credit hour for each level was calculated as follows: the instructional salary for each rank was assigned by level according to the percentage distribution of the course credits within each rank (the total classroom course credits were increased by the division of the individual student credit hours by 3). The salary determined by this method for each rank was summed by level and divided by the total student credit-hour production at that level.

2. The first professional level cost for law at Pittsburgh is \$35.

3. The first professional level cost for law at Temple is \$72 and health professions is \$41.

4. Includes all HEGIS classifications; not just selected.

SOURCE: Reports provided by the individual institutions, 1982.

Appendix Table 8A

LOWER-DIVISION AVERAGE CLASS SIZE
BY INSTITUTION AND BY HEGIS CLASSIFICATION¹
ACADEMIC YEAR 1981-82

HEGIS classification	Class size																	
	State-related					State-owned												
	Penn State	Pittsburgh	Temple	Lincoln	Indiana	West Chester	Bloomsburg	Millersville	Edinboro	Slippery Rock	Clarion	Shippensburg	Kutztown	California	East Stroudsburg	Lock Haven	Mansfield	Cheyney
All Instruction ²	32	32	24	24	32	27	28	29	25	29	37	28	33	27	32	28	28	21
Social sciences	48	40	27	22	47	41	36	32	29	36	48	31	34	25	43	34	31	23
Letters	26	23	20	25	31	27	27	25	26	27	28	26	27	22	31	24	25	19
Education	25	19	19	27	24	25	24	24	20	23	43	22	25	23	23	27	20	15
Business and management	58	28	33	30	41	38	34	37	32	39	40	34	39	55	38	--	--	30
Mathematics	39	37	24	31	31	32	32	38	35	35	32	30	33	40	33	28	31	29
Physical sciences	34	52	40	15	38	29	23	47	25	37	25	26	70	26	43	31	35	19
Fine and applied arts	39	26	13	15	18	17	25	26	16	22	31	28	48	16	28	23	--	13
Psychology	57	54	35	22	38	34	38	33	35	41	56	40	39	39	38	35	34	24
Engineering	30	36	28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Biological sciences	47	35	85	37	46	28	33	23	25	38	50	28	83	30	60	35	62	19
Foreign languages	20	13	11	18	23	16	17	20	18	17	16	17	20	16	15	21	23	13
Computer and Information sciences	35	29	26	--	40	--	--	31	--	31	40	--	2	--	34	--	32	22
Public affairs and services	32	14	18	--	--	36	--	25	--	28	--	24	--	20	21	--	24	--
Health professions	20	63	21	--	10	19	11	--	22	29	--	--	--	--	20	--	--	--
Communications	35	30	27	--	21	--	--	58	--	--	52	24	32	--	10	--	--	--
Home economics	54	--	--	--	27	--	--	--	28	--	--	--	--	--	--	--	21	15
Interdisciplinary studies	21	19	14	--	--	--	17	--	--	19	45	--	--	--	--	--	39	44
Agriculture and natural resources	28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Architecture and environmental design	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Area studies	32	19	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Law	--	--	38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Library science	--	6	--	--	--	--	--	20	--	--	11	21	17	--	--	--	--	--

1. Institutions are arranged in descending order with respect to total full-time equivalent students; State-related schools are listed first, followed by the State-owned schools. HEGIS classifications are arranged in descending order with respect to total undergraduate student credit-hour production. Class sizes were calculated by dividing classroom student credit hours by assigned credits.

2. Includes all HEGIS classifications.

SOURCE: Reports provided by the individual institutions, 1982.

Appendix Table 9A
 UPPER-DIVISION AVERAGE CLASS SIZE
 BY INSTITUTION AND BY HEGIS CLASSIFICATION¹
 ACADEMIC YEAR 1981-82

HEGIS classification	Class size																	
	State-related									State-owned								
	Penn State	Pittsburgh	Temple	Lincoln	Indiana	West Chester	Bloomsburg	Millersville	Edinboro	Slippery Rock	Clarion	Shippensburg	Kutztown	California	East Stroudsburg	Lock Haven	Mansfield	Cheyney
All Instruction ²	30	25	20	11	18	13	19	16	15	15	20	21	16	16	17	18	11	15
Social sciences	36	19	19	10	22	21	21	17	20	12	17	18	15	13	26	17	10	11
Letters	23	19	18	8	13	9	18	17	21	17	12	11	17	10	19	13	14	16
Education	16	17	12	12	14	14	18	18	14	14	23	14	16	16	16	19	10	15
Business and management	43	28	29	16	36	31	33	28	24	32	35	30	28	32	27	--	--	32
Mathematics	25	19	20	6	11	14	17	14	17	18	14	23	20	20	18	24	10	13
Physical sciences	30	24	25	11	15	9	13	8	17	11	7	13	17	10	14	5	7	10
Fine and applied arts	22	20	10	12	7	5	11	14	7	5	13	14	10	3	15	18	--	10
Psychology	30	28	22	9	21	21	20	23	30	15	26	23	22	28	21	14	12	17
Engineering	37	36	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Biological sciences	41	38	31	13	16	17	15	16	10	12	19	9	30	17	19	14	14	11
Foreign languages	13	10	10	2	6	7	5	12	8	6	3	8	6	1	10	11	4	2
Computer and Information sciences	32	30	23	--	23	--	--	21	--	22	14	--	9	--	24	--	26	10
Public affairs and services	28	22	17	--	--	16	--	13	--	13	--	16	--	17	--	--	10	--
Health professions	21	pd	14	--	15	12	10	19	30	16	--	--	7	--	10	--	--	--
Communications	25	24	19	--	21	--	--	--	--	--	29	21	15	--	--	--	--	--
Home economics	34	--	--	--	20	--	--	--	4	--	--	--	--	--	--	--	8	12
Interdisciplinary studies	16	29	11	--	--	--	12	--	--	--	--	--	13	--	--	--	15	--
Agriculture and natural resources	36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Architecture and environmental design	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Area studies	26	--	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Law	--	12	29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Library science	--	--	--	--	--	--	--	18	--	--	10	6	11	--	--	--	--	--

1. Institutions are arranged in descending order with respect to total full-time equivalent students; State-related schools are listed first, followed by the State-owned schools. HEGIS classifications are arranged in descending order with respect to total undergraduate student credit-hour production. Class sizes were calculated by dividing classroom student credit hours by assigned credits.

2. Includes all HEGIS classifications.

pd. Poor data.

SOURCE: Reports provided by the Individual Institutions, 1982.

Appendix Table 10A

AVERAGE CLASS SIZE IN CLASSROOM INSTRUCTION BY LEVEL¹
ACADEMIC YEARS 1979-80 to 1981-82

Institution ²	Undergraduate									Master's		
	Total			Lower division			Upper division			1981-82	1980-81	1979-80
	1981-82	1980-81	1979-80	1981-82	1980-81	1979-80	1981-82	1980-81	1979-80			
State-related												
Penn State	31	31	30	32	32	31	30	29	27	14	14	13
Pittsburgh	29	29	28	32	31	31	25	25	23	18	17	17
Temple	22	a	a	24	a	a	20	a	a	13	a	a
Lincoln	19	16	18	24	20	22	11	9	12	14	14	18
State-owned												
Indiana	26	25	a	32	33	a	18	17	a	6	7	a
West Chester	21	a	a	27	a	a	13	a	a	7	a	a
Bloomsburg	24	24	24	28	28	28	19	20	19	12	11	13
Millersville	25	24	25	29	29	29	16	15	17	11	11	13
Edinboro	21	21	19	25	24	23	15	16	14	7	8	8
Slippery Rock	23	25	22	29	29	28	15	17	14	10	10	10
Clarion	30	29	25	37	34	29	20	21	17	8	9	8
Shippensburg	26	27	a	28	28	a	21	22	a	14	12	a
Kutztown	24	24	22	33	33	30	16	15	14	14	13	12
California	23	20	20	27	23	22	16	15	16	8	9	9
East Stroudsburg	26	26	23	32	32	32	17	19	14	14	14	10
Lock Haven	25	24	23	28	28	26	18	16	15	na	na	na
Mansfield	20	20	18	28	27	24	11	12	11	11	14	12
Cheyney	19	18	18	21	23	23	15	11	12	9	6	6

1. Average class size for each level is calculated by dividing the total classroom student credit hours by the total classroom assigned credits.

2. Arranged in descending order with respect to total full-time equivalent students for 1981-82.

a. Noncomparable data reported.

na. Not applicable.

SOURCE: Reports provided by the individual institutions, 1980 to 1982.

Appendix Table IIA

AVERAGE NUMBER OF COURSES TAUGHT PER TERM
ACADEMIC YEARS 1977-78 to 1981-82

Institution ¹	Undergraduate					Master's				
	1981-82	1980-81	1979-80	1978-79	1977-78	1981-82	1980-81	1979-80	1978-79	1977-78
State-related										
Penn State	1,768	1,751	1,707	1,703	1,679	295	299	325	328	335
Pittsburgh	1,752	1,748	1,704	a	a	937	961	947	a	a
Temple	1,648	1,650	1,687	1,693	1,660	a	a	a	a	a
Lincoln	189	170	191	165	163	21	18	12	10	8
State-owned										
Indiana	850	831	pd	779	754	258	244	215	200	183
West Chester	904	872	853	a	a	238	233	222	a	a
Bloomsburg	516	520	516	503	491	76	78	68	59	55
Millersville	522	520	566	456	448	102	79	99	65	67
Edinboro	517	526	528	582	590	86	86	89	97	96
Slippery Rock	565	533	525	542	530	82	79	80	79	79
Clarion	482	468	454	451	425	72	73	68	68	76
Shippensburg	394	391	406	386	390	82	82	86	79	78
Kutztown	416	a	460	450	430	43	a	56	47	50
California	490	492	530	474	464	108	87	95	98	85
East Stroudsburg	432	431	426	437	423	37	40	40	39	37
Lock Haven	314	310	301	295	283	na	na	na	na	na
Mansfield	455	424	409	425	411	56	39	27	27	30
Cheyney	294	321	359	358	370	25	31	35	43	48

1. Arranged in descending order with respect to total full-time equivalent students for 1981-82.

a. Noncomparable data reported.

na. Not applicable.

pd. Poor data.

SOURCE: Reports provided by the individual institutions, 1978 to 1982.

TOTAL STUDENT CREDIT-HOUR PRODUCTION IN INDIVIDUAL INSTRUCTION¹
BY LEVEL AND SELECTED HEGIS CLASSIFICATION

1981-82

(Credit hours in 000s)

HEGIS classification and level ²	State-related				State-owned													
	Penn State	Pittsburgh	Temple	Lincoln	Bloomsburg	California	Cheyney	Clarion	East Stroudsburg	Edinboro	Indiana	Kutztown	Lock Haven	Mansfield	Millersville	Shippensburg	Slippery Rock	West Chester
All areas ³																		
Lower division	3.1	2.6	3.8	.1		--	a	.1	--	.8	a	.1	.1	a	.2	.5	.1	.5
Upper division	29.9	16.2	8.6	.1	1.4	--	a	1.2	2.0	2.1	6.1	1.0	.3	.2	.3	2.1	.4	--
Graduate	51.6	39.1	14.4	--	.3	--	--	.1	.3	.1	.8	.2	--	a	.2	.8	.2	--
Biological sciences																		
Lower division	.2	a	--	--	--	--	--	--	--	--	--	a	--	--	a	a	a	a
Upper division	1.4	.2	.2	--	a	--	--	a	.4	--	.3	.1	a	--	.1	.6	a	.1
Graduate	4.0	1.9	.3	--	a	--	--	a	a	a	a	a	--	--	a	a	a	--
Business and management																		
Lower division	a	a	a	a	--	--	--	--	--	--	a	--	--	--	a	a	--	--
Upper division	1.6	.1	.3	a	.1	--	--	.8	.1	.3	.5	a	--	--	a	.3	a	--
Graduate	2.0	1.1	1.5	--	a	--	--	a	--	a	.2	--	--	--	a	--	--	--
Communications																		
Lower division	--	--	.1	--	--	--	--	--	--	--	--	a	--	--	--	a	--	--
Upper division	.1	.4	.8	--	--	--	--	.2	--	--	.5	a	--	--	--	.1	--	--
Graduate	a	--	.4	--	--	--	--	.1	--	--	--	--	--	--	--	a	--	--
Computer and information sciences																		
Lower division	a	.1	a	--	--	--	--	--	--	--	--	a	--	a	a	--	--	--
Upper division	.1	.2	.4	--	--	--	--	--	.1	--	.2	.1	--	a	a	--	a	--
Graduate	.5	1.5	.1	--	--	--	--	--	--	--	a	--	--	--	a	--	--	--
Education																		
Lower division	.6	.2	.6	--	--	--	a	--	--	--	a	a	a	a	a	.1	a	a
Upper division	8.8	2.8	3.3	--	.1	--	a	a	.3	.2	1.1	.3	a	a	a	.1	a	--
Graduate	7.6	9.5	7.5	--	.1	--	--	a	.1	.1	.2	.1	--	a	.1	.2	.1	--
Fine and applied arts																		
Lower division	.7	.3	1.7	a	--	--	--	--	--	.6	a	a	.1	--	.1	a	a	.3
Upper division	2.0	.4	1.7	a	a	--	a	a	a	.3	.2	.1	a	--	a	.1	.1	--
Graduate	1.2	1.1	1.0	--	a	--	--	--	a	a	a	--	--	--	a	a	--	--
Foreign languages																		
Lower division	.1	1.6	a	a	--	--	a	.1	--	--	--	a	a	a	a	a	a	.1
Upper division	.9	.7	.1	a	a	--	a	--	--	a	a	a	a	--	a	a	a	--
Graduate	.4	.6	.1	--	--	--	--	--	--	--	a	a	--	--	--	--	--	--
Health professions																		
Lower division	--	a	--	--	--	--	--	--	--	--	--	--	--	--	--	--	a	a
Upper division	.7	4.0	.2	--	--	--	--	--	a	.4	--	a	--	--	--	--	a	--
Graduate	.3	4.4	.1	--	--	--	--	--	--	a	--	--	--	--	--	--	a	--
Home economics																		
Lower division	a	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Upper division	1.5	--	--	--	--	--	a	--	--	--	.7	--	--	a	--	--	--	--
Graduate	1.3	--	--	--	--	--	--	--	--	--	a	--	--	a	--	--	--	--
Letters																		
Lower division	.8	a	.1	a	a	--	a	--	--	--	--	a	a	a	a	.3	--	a
Upper division	1.3	1.6	.3	--	.1	--	a	a	a	.5	.1	.1	.1	a	a	a	.1	--
Graduate	2.7	1.7	1.0	--	a	--	--	a	--	a	.1	a	--	--	a	a	a	--
Mathematics																		
Lower division	--	.1	.1	--	a	--	--	--	--	.2	--	--	a	--	a	a	a	a
Upper division	.1	.3	a	--	a	--	--	a	--	--	.1	a	a	--	a	.1	a	--
Graduate	1.0	.5	.1	--	a	--	--	--	.1	--	a	a	--	--	--	a	--	--
Physical sciences																		
Lower division	.2	a	a	a	a	--	--	--	--	--	a	a	--	a	a	a	a	a
Upper division	.7	.4	.2	a	a	--	--	a	.1	a	.1	.1	a	a	.1	a	a	--
Graduate	11.3	4.9	.8	--	a	--	--	--	--	--	a	--	--	--	a	a	a	--
Psychology																		
Lower division	.1	--	a	a	--	--	--	--	--	--	--	--	a	--	a	--	--	--
Upper division	.7	1.3	.1	a	a	--	--	a	.1	--	.2	a	a	a	a	.1	a	--
Graduate	2.3	1.6	.4	--	a	--	--	--	--	--	.1	a	--	--	a	a	--	--
Public affairs and services																		
Lower division	.1	--	a	--	--	--	--	--	--	--	--	--	--	--	--	--	a	a
Upper division	3.4	1.0	a	--	--	--	--	--	.2	--	--	--	--	a	--	.3	.1	--
Graduate	1.2	3.9	a	--	--	--	--	--	--	--	--	--	--	--	--	--	.1	--
Social sciences																		
Lower division	a	a	.1	a	--	--	--	--	--	--	a	a	a	a	a	a	a	a
Upper division	1.1	1.4	.4	a	.8	--	--	a	.6	.4	2.0	.1	.1	a	.1	.4	a	--
Graduate	3.1	2.2	.8	--	.1	--	--	--	.1	a	.2	a	--	--	a	.4	a	--
All other areas																		
Lower division	.2	.3	1.0	--	--	--	--	--	--	a	--	a	--	--	--	--	--	a
Upper division	5.6	1.8	.7	--	.2	--	--	a	--	.1	--	a	--	--	--	--	--	--
Graduate	12.8	4.2	.2	--	--	--	--	--	a	--	--	a	--	--	--	a	--	--

1. Individual instruction encompasses all instruction which, because of its nature, is not delivered in a group situation. This activity may include independent study and research (both thesis and nonthesis), internship or field work, teaching or clinical practicum and individual instruction in the fine arts.

2. In addition to the master's level, the graduate level for Penn State, Pittsburgh, Temple and Indiana University includes first professional (excluding medical) and/or doctoral student credit hours.

3. Because of rounding, HEGIS detail may not sum to total of all areas.

a. Rounds to less than 100 student credit hours.

SOURCE: Student credit-hour reports submitted by the individual institutions, 1982.