# INSTRUCTIONAL OUTPUT AND FACULTY SALARY COSTS OF THE STATE-RELATED AND STATE-OWNED UNIVERSITIES 

Analysis of 1989-90 Data Reported Under 1989 Appropriations Acts and Public School Code



## State-Related Oriversities

Pent State (Centre)
Allentona Caipus (Lehigi)
Altooda Calpus (Bhait) Bedver Canpus (Beaver) Behrena coliege (Erse) Berks Callpus (Berks) capitol Calpus (Dauphin) Delavare Calpus (Delarare) Dusois Cappys (Clearfield Payette Cappus (fayette) Hazleton Calpus (Suzerde) Hersher redical Center (Dauphiol Iing of Prussia Cente: for Graduate studies (Montgoierp)
\#cheesport carpus (Allegheny) Yoot Alto (Pranklin) Hev Iencington (Westiorelad) Jgontz Calpus (Montgonery) Peastyivania college of Tecibology (Lycollug)

Peno State (ceatre) (cont.)
Schuylkill Canpus (schuylkill)
Shenange valley canpus (Mercer)
oniversity Center at Harrisburg (Dauphin)
Wilkes-Barfe Canpue (Luzerne)
Vorthagton Scrastod Capus (Leckavana)
Pork canpus (York)
Pittsburgh (Allegheny)
Bradford cappus (Xcrean)
Greensburg canpus (Mestioreland)
Jobastown Carpus (Cabbria)
Tituspille caipus (craviord)
qeiple (Philadelphia)
Aabler Caispus (Montgorery)
Onivers:ty Center at Harrisburg (Dauphin)
Lateol: (Chester)

## State-Ouned Unjversities

Eloonsburg (COMub:a
Californa (Hashagten)
Cheyney (Delavare)
Clation (Clarion
Veaango Canpus (Venango)
Rast Stroudsjurg (Monroe)
sdinboro (Brie)
Indiane i iadiana
Arastroag Cappus (Aisstrozg)
Puarsutamey Caspus (Jefterson)

Rutztow (Berks
Lock Bavea (Cliator)
Mangfield (7ioga)
Mallersvizle (Lancaster)
shippensburg (Culberiad)
slippery Rock (Butler)
Nest Chester (Cbester)

## FOREWORD

This 18th annual report summarizes the instructional outputs, instructional faculty salary costs, tuitions and appropriations for Pennsylvania's State-related and State-owned universities--the Commonwealth's public universities.

Levels of data for $1989-90$, and data trends for the past five years are presented. Student credit-hour and salary data are combined for the computation of a measure of cost efficiency: instructional faculty salary cost per full-time equivalent student. Tuition and appropriation data are combined for the computation of a measure of cost sharing: the percentage of total instructional revenues covered by instructional appropriations.

The data are intended for use by a variety of persons or groups: by legislators for making appropriation decisions; by university administrators for evaluating policies related to faculty outputs, salaries and workloads; and by Pennsylvania citizens, for making informed judgments about the levels and shares of costs related to public higher education in the Commonwealth.

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Director
Joint State Government Commission
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## I. DATA HIGHLIGHTS

1. In Fall 1989, a total of 556,927 full- and part-time students were enrolled in the 146 public and private colleges and universities in Pennsylvania. About 239,311 (43 percent) of this total were enrolled in the Commonwealth's public universities: 142,943 students (26 percent) in the 4 State-related universities, and 96,368 ( 17 percent) in the 14 State-owned universities. The public universities are shown on page ii. Compared to Fall 1988, total student enrollments in all of Pennsylvania's colleges and universities increased by about 3 percent, and in the Commonwealth's public universities by about 4 percent. ${ }^{1}$
2. During the $1989-90$ school year, 2 a total of over 6 million undergraduate and graduate student credit hours (SCH) was generated by the public universities. These SCH were the equivalent of 211,233 full-time students: 120,975 full-time equivalent (FTE) students (57 percent) at the State-related universities, and 90,258 ( 43 percent) at the State-owned universities. ${ }^{3}$ (Table 1) Like student enrollments, FTE students at the public universities increased by about 3 percent over the previous year; therefore, the aggregate full- and part-time student mix was not altered appreciably. FTE students vary considerably by academic level at the individual institutions.
[^0]At Pittsburgh and Temple, ${ }^{4}$ about three-quarters of the FTE students are undergraduates; both institutions have first-professional programs in dentistry and law. In contrast, the proportion of undergraduate FTEs is 85 percent at Lincoln, and about 90 percent at Penn State and the State-owned group. (Table 2) Likewise, the public universities offer diverse programs to students. Most of the institutions have large programs in business and either education or engineering, in addition to letters, mathematics, and the physical or social sciences. The State-owned institutions have specialized program missions. 5 (Tables 3A through $3 E$ )
3. During the 1989-90 school year, the public universities conferred 38,249 bachelor's and graduate degrees (not including medical degrees): 22,554 degrees (59 percent) by the State-related universities, and 15,695 ( 41 percent) by the State-owned universities. Total degrees had a one-year increase of 3 percent. ${ }^{6}$ (Table 4)
4. Over the past 5 years (since 1984-85), the number of public university FTE students has increased by almost 11 percent, while the Commonwealth's population of 18-to-24-year-olds has decreased by over 13 percent. The FTE student increase would appear to be attributable to a larger percentage of Pennsylvania's college-age population attending the public universities, plus an increase in the enrollment of older students.

[^1]5. In Fall 1989, 10,429 teaching and research faculty were employed full-time by Pennsylvania's public universities: 5,919 full-time faculty ( 57 percent) by the State-related universities, and 4,510 (43 percent) by the State-owned universities. ${ }^{7}$ The overall workweek reported by these faculty averaged 53.1 hours: 51.7 total hours at the State-related universities, and 55.3 total hours at the State-owned universities. Hours spent in undergraduate and graduate classroom and individual instruction contact with students averaged 8.3 per week for the State-related group, and 11.7 per week for the State-owned group. (Table 5) Since 1984-85, average total workweeks for both full-time faculty groups have remained almost constant, but average student contact hours have fallen about one hour per week.
6. During the 1989-90 school year, the full- and part-time instructional faculty employed by the public universities were the equivalent of 11,586 full-time faculty: 6,800 FTE faculty (59 percent) at the State-related universities, and 4,786 (41 percent) at the State-owned universities. 8 The total FTE faculty had a one-year increase of 2 percent. The salary for these faculty averaged $\$ 34,800$ and $\$ 39,000$ for the two public university groups, respectively. ${ }^{9}$ The average salary had a

[^2]one-year increase of almost 7 percent. 10 The State-owned universities tend to utilize relatively more higher-ranked FTE instructional faculty--professors and associate professors--than do the larger State-related universities; Penn State, Pittsburgh and Temple provide a significant amount of instruction using instructors and non-ranked persons (largely graduate teaching assistants). (Table 6)
7. Since 1984-85, the average salary for the FTE instructional faculty has increased by about $\$ 8,600$ ( 33 percent) at the State-related universities, and about $\$ 9,900$ ( 34 percent) at the State-owned universities. The relative increase in average salary for the State-owned group has tended to widen the gap in average salaries between the two groups of FTE faculty.
8. During the 1989-90 school year, the ratio of FTE students to FTE instructional faculty averaged 17.8 for the State-related universities (a one-year increase of about 1 percent), and 18.9 for the State-owned universities (no change). (Tables 1 and 6).
9. During the 1989-90 school year, the average instructional faculty salary costs per FTE student for the State-related university group were: undergraduate level, $\$ 1,454$; and master's level, $\$ 3,352$. For the State-owned group the FTE salary costs for the same levels were $\$ 1,990$ and $\$ 3,031$, respectively. (Table 7) First professional FTE salary costs averaged $\$ 1,476$ at Pittsburgh and $\$ 3,157$ at Temple; doctoral FTE salary costs averaged $\$ 10,168$ at Penn State, $\$ 9,309$ at Pittsburgh and $\$ 5,425$ at Temple. Statistical analysis has shown that FTE salary cost varies directly with FTE instructional faculty salaries, and inversely with class (section) average sizes and the number of classes (sections) offered per course. Since 1984-85, undergraduate FTE salary costs have increased by about 26 percent for the State-related group, and increased by about 31 percent for the State-owned group. FTE salary cost also varies considerably by program area. (Tables 8A through 8E)
${ }^{10}$ Caveat: Average instructional salaries are computed by dividing each institution's total instructional salaries for each academic rank by the respective number of FTE faculty. Therefore, changes in average salaries do not necessarily correspond to general salary changes for all faculty members in a given institution. Average salary changes also reflect changes in the rank distribution of faculty.
10. Regression analysis applied to the 1989-90 FTE salary cost, class size and instructional faculty salary data for the public universities indicates that the total cost savings from decreasing FTE instructional faculty average salaries by $\$ 1,000$ at these institutions could be expected to be about $\$ 10$ million, and from increasing average class (section) sizes by one student almost \$13 million. ${ }^{11}$
11. The average undergraduate class (section) size is 19 at Lincoln, 30 at Penn State and Pittsburgh, 26 at Temple, and 23 at the State-owned universities. Since 1984-85, average undergraduate class sizes have remained fairly steady. (Table 9)
12. During the 1989-90 school year, the tuition and required fees for full-time in-State undergraduate students averaged $\$ 3,572$ at the State-related universities, and $\$ 2,437$ at the State-owned universities. These tuition and fees had one-year increases of 4 percent for both groups. At Lincoln, tuition and fees for nonresident full-time undergraduates exceeded those for residents by about 46 percent, and for graduates by about 49 percent. At Penn State and Pittsburgh, tuition and fees for nonresident full-time undergraduates and graduates were approximately double those for residents. At Temple, the out-of-state premium was about 81 percent for full-time undergraduates and 26 percent for full-time graduates. For the State-owned group, nonresident undergraduates jpaid about 76 percent more, but nonresident graduates only about 18 percent more, than Pennsylvania residents. (Table 10)
13. For fiscal year 1989-90, the public universities collected almost $\$ 818$ million in tuition and fee revenues. These revenues per FTE student averaged $\$ 3,150$ at Lincoln, $\$ 4,580$ at Penn State, $\$ 5,260$ at Pittsburgh, $\$ 4,890$ at Temple, and $\$ 2,630$ at the State-owned universities. Since 1984-85, per student revenues have grown by about 50 percent at the State-related universities, and about 60 percent at the State-owned universities. (Table 11)
14. For fiscal year 1989-90, the Commonwealth's General Fund appropriations to the public universities for instruction totaled

[^3]$\$ 745$ million: $\$ 410$ million ( 55 percent) to the State-related universities and $\$ 335$ million ( 45 percent) to the State-owned universities. ${ }^{12}$ These appropriations represent about 87 percent of the total appropriations made specifically for instruction to the public universities and community colleges, and about 70 percent of the total appropriations made for all purposes to all public and private colleges and universities in the Commonwealth. Instructional appropriations included both educational and general appropriations, 13 and Tuition Challenge Grants. Total instructional appropriations increased by 9 percent over the previous year. The average appropriation per FTE student was $\$ 3,390$ for the State-related group (a one-year increase of 7 percent) and $\$ 3,710$ for the State-owned group (a one-year increase of 4 percent). (Table 12) In addition to the appropriations made directly to the public universities, a General Fund appropriation to the Pennsylvania Higher Education Assistance Agency of over $\$ 55$ million went to students at the public universities through various PHEAA grant and matching-fund programs. ${ }^{14}$
15. During the 1989-90 school year, on an FTE student basis, the ratio of instructional State appropriations to tuition and fee revenues plus instructional State appropriations averaged 41 percent for the State-related university group, and 59 percent for the State-owned university group. (Table 13) Since 1984-85, again on an FTE student basis, average direct Commonwealth instructional appropriations to the public universities have increased at a lesser percentage than average tuition and fee revenues collected by these institutions. Hence, the percentage of total instructional revenues from State appropriations has decreased, causing the student share of instructional cost to increase for all of the public universities except Lincoln.

[^4]FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC LEVEL'
1989-90, CHANGE FROM 1988-89 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1984-85 to 1989-90)

| Institution |  |  |  |  | Undergraduate |  |  |  | Graduate ${ }^{2}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total ${ }^{\text {Percentaqe change }}$ |  |  |  |  |  | Percentage change |  | Percentage chanqe |  |  |  |
|  | FTE <br> students | One-year change | Oneyear | Five-year average | FTE <br> students | One-year change | Oneyear | Five-year average | FTE <br> students | One-year change | Oneyear | Five-year average |
| State-related |  |  |  |  |  |  |  |  |  |  |  |  |
| Lincoln | 1,394 | 77 | 6\% | 3\% | 1,171 | 55 | 5\% | 1\% | 223 | 22 | 11\% | 12\% |
| Penn State | 62,839 | 744 | 1 | 2 | 56,641 | 370 | 1 | 2 | 6,198 | 374 | 6 | 5 |
| Pittsburgh | 29,737 | 466 | 2 | a | 22,107 | 293 | 1 | 1 | 7,630 | 173 | 2 | a |
| Temple | 27,005 | 552 | 2 | 3 | 20,898 | 284 | 1 | 3 | 6,107 | 268 | 5 | 1 |
| Total | 120,975 | 1,839 | 2 | 2 | 100,817 | 1,002 | 1 | 2 | 20,358 | 837 | 4 | 2 |
| State-owned |  |  |  |  |  |  |  |  |  |  |  |  |
| Bloomsburg | 7,058 | 2.64 | 4 | 3 | 6,631 | 231 | 4 | 3 | 427 | 33 | 8 | 7 |
| California | 6,264 | 267 | 4 | 7 | 5,673 | 164 | 3 | 6 | 591 | 103 | 21 | 12 |
| Cheyney | 1,433 | 192 | 15 | -4 | 1,204 | 123 | 11 | -6 | 229 | 69 | 43 | 39 |
| Clarion | 6,312 | 28 | a | 2 | 5,916 | 27 | a | 2 | 396 | 1 | a | 6 |
| East Stroudsburg | 5,250 | 426 | 9 | 5 | 4,634 | 290 | 7 | 4 | 616 | 136 | 28 | 16 |
| Edinboro | 7,098 | 425 | 6 | 5 | 6,695 | 416 | 7 | 5 | 403 | 9 | 2 | 4 |
| Indiana | 13,698 | 533 | 4 | 1 | 12,748 | 391 | 3 | 1 | 950 | 142 | 18 | 4 |
| Kutztown | 6,913 | 381 | 6 | 5 | 6,557 | 328 | 5 | 4 | 356 | 53 | 17 | 11 |
| Lock Haven | 3,176 | 206 | 7 | 4 | 3,176 | 206 | 7 | 4 | b | b | b | b |
| Mansfield | 3,035 | 205 | 7 | 2 | 2,838 | 193 | 7 | 1 | 197 | 12 | 6 | 7 |
| Millersville | 7,030 | 116 | 2 | 3 | 6,266 | 182 | 3 | 2 | 764 | -66 | -8 | 12 |
| Shippensburg | 5,978 | 77 | 1 | 1 | 5.513 | 94 | 2 | 2 | 465 | -17 | -4 | -2 |
| Slippery Rock | 7,124 | 177 | 3 | 3 | 6,648 | 50 | 1 | 3 | 476 | 127 | 36 | 12 |
| West Chester | 9,889 | 306 | 3 | 4 | 8,898 | 241 | 3 | 3 | 991 | 65 | 7 | 9 |
| Total | 90,258 | 3,603 | 4 | 3 | 83.397 | 2,936 | 4 | 3 | 6,861 | 667 | 11 | 8 |
| All institutions | 211,233 | 5,442 | 3 | 2 | 184,214 | 3,938 | 2 | 2 | 27,019 | 1,504 | 6 | 3 |

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. In addition to the master's level, graduate for Penn State, Pittsburgh, Temple and Indiana includes first professional (excluding medical schools) and/or doctor's levels.
a. Rounds to less than 1 percent.
b. The graduate program is not included because of its very small size.

SOURCE: Reports provided by the individual institutions, 1985 to 1990.

FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC DIVISION AND LEVEL¹
1989-90, CHANGE FROM 1988-89 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1984-85 to 1989-90)

| Institution | Lower division |  |  | Upper division |  |  | Master's |  |  | $\begin{gathered} \text { First } \\ \text { _professional and doctor's? } \end{gathered}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage change |  |  | Percentage change |  |  | Percentage change |  |  | Percentage change |  |  |
|  | FTE <br> students | Oneyear | Five-year average | FTE <br> students | Oneyear | Five-year average | FTE students | Oneyear | Five-year average | FTE <br> students | Oneyear | Five-year average |
| State-related |  |  |  |  |  |  |  |  |  |  |  |  |
| Lincoln | 940 | 5\% | 1\% | 231 | 3\% | 3\% | 223 | 11\% | 12\% | na | na | na |
| Penn State | 36,601 | -3 | 1 | 20,040 | 8 | 2 | 3,457 | 7 | 11 | 2,741 | 5\% | 1\% |
| Pittsburgh | 14,817 | 2 | 1 | 7,290 | a | a | 4,727 | a | a | 2,903 | 6 | -1 |
| Temple | $11,073$ | 1 | 3 | 9,825 | 2 | 3 | 3,130 | 8 | 3 | 2,977 | 1 | -1 |
| Total | 63,431 | -1 | 1 | 37,386 | 5 | 2 | 11,537 | 5 | 3 | 8,621 | 4 | a |
| State-owned |  |  |  |  |  |  |  |  |  |  |  |  |
| Bloomsburg | 4,680 | 3 | 2 | 1,951 | 5 | 3 | 427 | 8 | 7 | na | na | na |
| California | 3,823 | 2 | 4 | 1,850 | 6 | 13 | 591 | 21 | 12 | na | na | na |
| Cheyney | -912 | 7 | -6 | 1 292 | 26 | -5 | 229 | 43 | 39 | na | na | na |
| Clarion | 4,282 | a | 1 | 1,634 | 1 | 3 | 396 | a | 6 | na | na | na |
| East Stroudsburg | 3.489 | 6 | 4 | 1,145 | 9 | 2 | 616 | 28 | 16 | na | na | na |
| Edinboro | 4,936 | 8 | 5 | 1,759 | 4 | 4 | 403 | 2 | 4 | na | na | na |
| Indiana | 8,743 | 4 | 1 | 4,005 | 2 | 1 | 950 | 18 | 4 | b | b | b |
| Kutztown | 4,428 | 4 | 4 | 2,129 | 8 | 5 | 356 | 17 | 11 | na | na | na |
| Lock Haven | 2,276 | 6 | 4 | 900 | 9 | 3 | c | C | c | na | na | na |
| Mansfield | 2,109 | 6 | 1 | 729 | 10 | 1 | 197 | 6 | 7 | na | na | na |
| Millersville | 4,451 | 2 | a | 1,815 | 6 | 10 | 764 | -8 | 12 | na | na | na |
| Shippensburg | 4,105 | 3 | 2 | 1,408 | -2 | 1 | 465 | -4 | -2 | na | na | na |
| Slippery Rock | 5,052 | 1 | 3 | 1,596 | 0 | 3 | 476 | 36 | 12 | na | na | na |
| West Chester | 5,978 | a | 2 | 2,920 | 9 | 8 | 991 | 7 | 9 | na | na | na |
| Total | 59,264 | 3 | 2 | 24,133 | 5 | 4 | 6,861 | 11 | 8 | na | na | na |
| All institutions | 122,695 | 1 | 2 | 61,519 | 5 | 3 | 18,398 | 7 | 5 | 8,621 | 4 | a |

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. Excludes medical school data.
a. Rounds to less than 1 percent.
b. Included in master's level.
c. The master's program is not included because of its very small size.
na. Not applicable.
SOURCE: Reports provided by the individual institutions, 1985 to 1990.

Table 3A
LINCOLN UNIVERSITY

## NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT SIUDENTS ${ }^{1}$ BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION² <br> 1989-90

| CIP Classification | Total | Percentage of total | Undergraduate |  |  |  | Graduate ${ }^{3}$ | Percent total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Lower division | Percentage of total | Upper division | Percent- age of total |  |  |
| Agriculture | -- | -- | -- | -- | -- | -- | -- | -- |
| Architecture and environmental design | -- | -- | -- | -- | -- |  |  |  |
| Area and ethnic studies |  | -- |  | -- |  |  |  |  |
| Business | 113 | 8\% | 51 | 5\% | 62 | 27\% | -- |  |
| Communications |  | -- | -- | -- | -- | -- |  |  |
| Computer and information sciences |  | -- | -- | -- | - | - | -- |  |
| consumer, personal and miscellaneous services |  | -- | -- |  |  |  |  |  |
| Education | 225 | 16 | 197 | 21 | 28 | 12 |  |  |
| Engineering | 67 | 5 | - | 6 | - | - |  |  |
| Foreign languages Health | 67 | 5 | 56 | 6 | 11 | 5 | -- | -- |
| Home economics | -- | -- | -- | -- | -- | -- | -- | -- |
| Industrial arts |  |  |  |  |  |  |  |  |
| Law | - | -- | 57 | 17 | 8 | -- | -- | -- |
| Letters | 175 | 13 | 157 | 17 | 18 | 8 |  |  |
| Liberal/general studies | -- | -- | -- | -- | -- | -- | -- | -- |
| Library and archival sciences | - | - | -- | -- |  | -- |  | - |
| Life sciences | 83 | 6 | 74 | 8 | 9 | 4 |  |  |
| Mathematics | 159 | 11 | 147 | 16 | 12 | 5 | -- | -- |
| Multi/interdisciplinary studies | 3 | a | 3 | a | -- |  |  |  |
| Parks and recreation | -- | -- | -- | -- |  | -- | -- | -- |
| Personal and social development | 5 |  | 9910 | -- |  |  |  |  |
| Philosophy, religion and theology | 50 | 4 | 49 | 5 | 1 | , | -- | -- |
| Physical sciences | 74 | 5 | 61 | 6 | 13 | 6 |  |  |
| Psychology | 51 | 4 | 36 | 4 | 15 | 6 | -- | -- |
| Public affairs and protective services | 223 | 16 |  |  |  |  | 223 | 100\% |
| Social sciences | 171 | 12 | 109 | 12 | 62 | 27 | -- | -- |
| Trade and industrial | -- | -- | -- | -- | - |  | - |  |
| Visual and performing arts | -- | -- | -- | -- | -- | -- | -- | -- |
| Other | -- | -- | -- | -- | - | -- | - |  |
| Tota ${ }^{4}$ | 1,394 | 100 | 940 | 100 | 231 | 100 | 223 | 100 |

1. Data represent the summer term preceding the academic year plus the academic year. Full-time ecuivalent students are calculated by dividing undergraduate student credit hours by 30 and graduate student credit hours by 24.
2. Classification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics.
3. Graduate includes master's level only.
4. Eecause of rounding, CIP detail may not sum to total.
a. Rounds to less than 1 percent.

SOURCE: Reports provided by Lincoln University, 1990.

Table 3

## THE PENNSYLVANIA STATE UNIVERSITY <br> NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT SIUDENTS ${ }^{1}$ BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSI FICATION ${ }^{2}$ <br> 1989-90

| CIP Classification | Total | Percentage of total | Undergraduate |  |  |  | Graduate ${ }^{3}$ | Percentage of total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Lower division | Percentage of total | Upper division | ```Percent- age of total``` |  |  |
| Agriculture | 720 | 1\% | 153 | a | 455 | 2\% | 112 | 2\% |
| Architecture and environmental design | 525 | 1 | 298 | 1\% | 218 | 1 | 9 | a |
| Area and ethnic studies | 276 | a | 155 |  | 90 | a | 31 | 1 |
| Business | 7,741 | 12 | 2,725 | 7 | 4,281 | 21 | 735 | 12 |
| Communications | 894 | 1 | 269 | 1 | 610 | 3 | 15 | a |
| Computer and information sciences | 1,383 | 2 | 1,040 | 3 | 209 | 1 | 134 | 2 |
| Consumer, personal and miscellaneous services | -- | -- | -- | -- | -- | -- | -- | -- |
| Education | 5,636 | 9 | 2,089 | 6 | 1,993 | 10 | 1,554 | 25 |
| Engineering | 5,659 | 9 | 1,499 | 4 | 2,904 | 14 | 1,256 | 20 |
| Foreign languages | 2,020 | 3 | 1,585 | 4 | 341 | 2 | 94 | 2 |
| mealth | 718 | 1 | 229 | 1 | 452 | 2 | 37 | 1 |
| Home economics | 1,241 | 2 | 748 | 2 | 367 | 2 | 126 | 2 |
| Industrial arts | -- | -- | -- | -- | -- | -- | -- | -- |
| Law | - | -- | - | -- | - | - | - | -- |
| Letters | 6,264 | 10 | 4,136 | 11 | 1,862 | 9 | 266 | 4 |
| Liberal/general studies | 56 | a | 30 | a | 26 | a | -- | -- |
| Library and archival sciences | 8 | a | 2 | a | 6 | a | -- | -- |
| Life sciences | 3,127 | 5 | 2,244 | 6 | 667 | 3 | 216 | 3 |
| Mathematics | 5,871 | 9 | 5,021 | 14 | 668 | 3 | 182 | 3 |
| Military sciences | 147 | a | 74 | a | 73 | a | - | -- |
| Multi/interdisciplinary studies | 1,115 | 2 | 531 | 1 | 440 | 2 | 144 | 2 |
| Parks and recreation | 231 | a | 23 | a | 184 | 1 | 24 | a |
| Personal and social development | - | , | - |  | - | -- | - | -- |
| Philosophy, religion and theology | 872 | 1 | 708 | 2 | 129 |  | 35 | 1 |
| Physical sciences | 4,940 | 8 | 3,872 | 11 | 577 | 3 | 491 | 8 |
| Psychology | 1,926 | 3 | 1,295 | 4 | 477 | 2 | 154 | 2 |
| Public affairs and protective services | 841 | , | 173 | a | 445 | 2 | 223 | 4 |
| Social sciences | 7,105 | 11 | 4,864 | 13 | 1,967 | 10 | 274 | 4 |
| Trade and industrial | 332 | 1 | 332 | 1 |  | - |  | - |
| Visual and performing arts | 3,196 | 5 | 2,506 | 7 | 601 | 3 | 89 | 1 |
| Other |  | -- | -- | -- | -- | -- | -- | -- |
| Total ${ }^{4}$ | 62,839 | 100 | 36,601 | 100 | 20,040 | 100 | 6,198 | 100 |

1. Data 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. Classification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics.
3. Graduate includes master's and/or doctor's levels, and excludes medical school data.
4. Because of rounding, CIP detail may not sum to total.
a. Rounds to less than 1 percent.

SOURCE: Reports provided by The Pennsylvania State University, 1990.

Table 3C

## UNIVERSITY OF PITTSBURGH <br> NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS' BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²

1989-90

| CIP Classification | Total | ```Percent- age of total``` | Undergraduate |  |  |  | Graduate ${ }^{3}$ | Percentage of total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Lower division | Percentage of total | Upper division | ```Percent- age of total``` |  |  |
| Agriculture | -- | -- | -- | -- | -- | -- | -- | -- |
| Architecture and environmental design | - |  | - | -- | -- | -- | -- | -- |
| Area and ethnic studies | 241 | 1\% | 161 | 1\% | 76 | 1\% | 4 | a |
| Business | 2,431 | 8 | 333 | 2 | 794 | 11 | 1,304 | 17\% |
| Communications | 54 | a | 3 | a | 26 | a | 25 | a |
| Computer and information sciences | 931 | 3 | 551 | 4 | 185 | 3 | 195 | 3 |
| Consumer, personal and miscellaneous services | -- | - | -- | -- | -- | -- | -12 | -- |
| Education | 1,890 | 6 | 308 | 2 | 470 | 6 | 1,112 | 15 |
| Engineering | 1,690 | 6 | 517 | 3 | 685 | 9 | 488 | 6 |
| Foreign languages | 1,116 | 4 | 840 | 6 | 216 | 3 | 60 | 1 |
| Health | 2,738 | 9 | 266 | 2 | 1,109 | 15 | 1,363 | 18 |
| Home economics | 109 | a | 1 | a | 76 | 1 | 32 | a |
| Industrial arts |  | - | -- | -- | -- | -- | -- | -- |
| Law | 1,041 | 4 | -- | -- | -- | -- | 1,041 | 14 |
| Letters | 3,627 | 12 | 2,324 | 16 | 1,082 | 15 | 221 | 3 |
| Liberal/general studies |  | -- | -- | -- | -- | -- | -- | - |
| Library and archival sciences | 163 | 1 | -- | -- | -- | -- | 163 | 2 |
| Life sciences | 846 | 3 | 578 | 4 | 189 | 3 | 79 | 1 |
| Mathematics | 1,882 | 6 | 1,575 | 11 | 218 | 3 | 89 | 1 |
| Military sciences | 21 | a | 15 | a | 6 | ¢ | -- | -- |
| Multi/interdisciplinary studies | 234 | 1 | 128 | 1 | 86 | 1 | 20 | a |
| Parks and recreation | -- | -- | -- | -- | -- | -- | -- | -- |
| Personal and social development | -- | -- | - | -- | 9 | - | 5 | - |
| Philosophy, religion and theology | 700 | 2 | 553 | 4 | 93 | , | 54 | , |
| Physical sciences | 2,263 | 8 | 1,820 | 12 | 124 | 2 | 319 | 4 |
| Psychology <br> Public affairs and | 1,70.4 | 6 | 1,274 | 9 | 318 | 4 | 112 | 1 |
| protective services | 1,167 | 4 | 136 | 1 | 346 | 5 | 685 | 9 |
| Social sciences | 3,768 | 13 | 2,570 | 17 | 997 | 14 | 201 | 3 |
| Trade and industrial | -- | -- | -- | - | -- | -- | - | - |
| Visual and performing arts | 1,122 | 4 | 865 | 6 | 194 | 3 | 63 | 1 |
| Other | -- | - | -- | -- | - | -- | -- | -- |
| Total ${ }^{4}$ | 29,737 | 100 | 14,817 | 100 | 7,290 | 100 | 7,630 | 100 |

1. Data 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. Classification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics.
3. Graduate includes master's, first professional (excluding medical school) and/or doctor's levels.
4. Because of rounding, CIP detail may not sum to total.
a. Kounds to less than 1 percent.

SOURCE: Reports provided by University of Pittsburgh, 1990.

Table 3D

## TEMPLE UNIVERSITY <br> NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT SIUDENTS ${ }^{1}$ BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION ${ }^{2}$ <br> 1989-90

| CIP Classification | Total | Percentage of total | Undergraduate |  |  |  | Graduate ${ }^{3}$ | Percentage of total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Lower division | Percentage of total | Upper division | Percentage of total |  |  |
| Agriculture | 140 | 1\% | 79 | 1\% | 60 | 1\% | 1 | a |
| Architecture and environmental design | -- | - | -- | -- | - | -- | -- | -- |
| Area and ethnic studies | 263 | 1 | 131 | 1 | 85 | 1 | 47 | 1\% |
| Business | 4,168 | 15 | 1,297 | 12 | 2,203 | 22 | 668 | 11 |
| Communications | 1,065 | 4 | 417 | 4 | 518 | 5 | 130 | 2 |
| Computer and information sciences | 534 | 2 | 223 | 2 | 197 | 2 | 114 | 2 |
| Consumer, personal and miscellaneous services | -- | -- | -- | -- | -- | -- | -- | -- |
| Education | 3,034 | 11 | 730 | 7 | 967 | 10 | 1,337 | 22 |
| Engineering | 875 | 3 | 304 | 3 | 526 | 5 | 45 | 1 |
| Foreign languages | 856 | 3 | 545 | 5 | 261 | 3 | 50 | 1 |
| Health | 1,614 | 6 | 83 | 1 | 689 | 7 | 842 | 14 |
| Home economics | -- | -- | -- | -- | -- | -- | -- | -- |
| Industrial arts | -- | -- | -- | -- | -- | -- | -- | -- |
| Law | 1,316 | 5 | 6 | a | 7 | a | 1,303 | 21 |
| Letters | 2,404 | 9 | 1,656 | 15 | 615 | 6 | 133 | 2 |
| Liberal/general studies | 298 | 1 | 248 | 2 | 49 | a | 1 | a |
| Library and archival sciences | -- | - | -- | - | - | -- | -- | - |
| Life sciences | 809 | 3 | 274 | 2 | 400 | 4 | 135 | 2 |
| Mathematics | 1,446 | 5 | 1,103 | 10 | 267 | 3 | 76 | , |
| Military sciences | 6 | a | 4 | a | 2 | a | -- | -- |
| Muiti/interdisciplinary studies | 12 | a | 12 | a | -- | -- | - | -- |
| Parks and recreation | 182 | 1 | 64 | 1 | 93 | 1 | 25 | a |
| Personal and social development | 6 | a | 6 | a | -- | -- | -- | -- |
| Philosophy, religion and theology | 624 | 2 | 356 | 3 | 182 | 2 | 86 | 1 |
| Physical sciences | 987 | 4 | 609 | 5 | 282 | 3 | 96 | 2 |
| Psychology | 876 | 3 | 439 | 4 | 354 | 4 | 83 | 1 |
| Public affairs and protective services | 817 | 3 | 206 | 2 | 300 | 3 | 311 | 5 |
| Social sciences | 3,040 | 11 | 1,561 | 14 | 1,132 | 12 | 347 | 6 |
| Trade and industrial | -- | -- | -- | -- | -- | -- | -- | -- |
| Visual and performing arts | 1,637 | 6 | 721 | 7 | 640 | 7 | 276 | 5 |
| Other |  | -- | -- | -- | -- | -- | -- | - |
| Total ${ }^{4}$ | 27,005 | 100 | 11,073 | 100 | 9,825 | 100 | 6,107 | 100 |

1. Data 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. Classification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics.
3. Graduate includes master's, first professional (excluding medical school) and/or doctor's levels.
4. Because of rounding, CIP detail may not sum to total.
a. Rounds to less than 1 percent.

SOURCE: Reports provided by Temple University, 1990.

Table 3E

## STATE-OWNED UNIVERSITIES

## NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS ${ }^{1}$ BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION2

1989-90

| CIP Classification | Total | Percentage of total | Undergraduate |  |  |  | Graduate ${ }^{3}$ | Percent age of total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Lower division | Percentage of total | Upper division | $\begin{aligned} & \text { Percent- } \\ & \text { age of } \\ & \text { total } \end{aligned}$ |  |  |
| Agriculture | 30 | a | 20 | a | 7 | a | 3 | a |
| Architecture and environmental design | 4 | a | 3 | a | 1 | a | -- | -- |
| Area and ethnic studies | 152 | a | 94 | a | 50 | a | 8 | a |
| Business | 9,089 | 10\% | 3,871 | 7\% | 4,848 | 20\% | 370 | 5\% |
| Communications | 2,795 | 3 | 1,717 | 3 | 980 | 4 | 98 | 1 |
| Computer and information sciences | 2,057 | 2 | 1,598 | 3 | 302 | 1 | 157 | 2 |
| Consumer, personal and miscellaneous services | 17, -- | - | - - - | -- | 7, -- | - | 3,741 | -- |
| Education | 17,577 | 19 | 6,528 | 11 | 7,308 | 30 | 3,741 | 55 |
| Engineering | 283 | a | 97 | a | 151 | 1 | 35 | 1 |
| Foreign languages | 2,383 | 3 | 2,010 | 3 | 343 | 1 | 30 | a |
| Health | 1,611 | 2 | 350 | 1 | 944 | 4 | 317 | 5 |
| Home economics | 602 | 1 | 279 | a | 295 | 1 | 28 | a |
| Industrial arts | 294 | a | 148 | a | 117 | a | 29 | a |
| Law | 162 | a | 106 | a | 44 | a | 12 | a |
| Letters | 9,168 | 10 | 7,538 | 13 | 1,320 | 5 | 310 | 5 |
| Liberal/general studies | - 197 | a | 190 | a | 7 | a | -- | -- |
| Library and archival sciences | 290 | a | 52 | a | 72 | a | 166 | 2 |
| Life sciences | 4,052 | 4 | 3,382 | 6 | 543 | 2 | 127 | 2 |
| Mathematics | 5,891 | 7 | 5,135 | 9 | 616 | 3 | 140 | 2 |
| Military sciences | 206 | a | 137 | a | 69 | a | - | - |
| Multi/interdisciplinary studies | 241 | a | 108 | a | 59 | a | 74 | 1 |
| Parks and recreation | 315 | a | 180 | a | 116 | a | 19 | a |
| Personal and social development | 522 | 1 | 391 | 1 | 118 | a | 13 | a |
| Philosophy, religion and theology | 1,728 | 2 | 1,566 | 3 | 143 | 1 | 19 | a |
| Physical sciences | 4,758 | 5 | 4,204 | 7 | 454 | 2 | 100 | 1 |
| Psychology | 4,968 | 6 | 3,333 | 6 | 1,080 | 4 | 555 | 8 |
| Public affairs and protective services | 1,240 | 1 | 614 | 1 | 558 | 2 | 68 | 1 |
| Social sciences | 13,821 | 15 | 10,931 | 18 | 2,594 | 11 | 296 | 4 |
| Trade and industrial | -29 | a | 7 | a | 22 | a | -- | - |
| Visual and performing arts | 5,671 | 6 | 4,561 | 8 | 965 | 4 | 145 | 2 |
| Other | 125 | a | 111 | a | 8 | a | 6 | a |
| Total ${ }^{4}$ | 90,258 | 100 | 59,264 | 100 | 24,133 | 100 | 6,861 | 100 |

1. Data 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. Classification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics
3. Graduate includes master's level at all institutions except Lock Haven (which is not included because of its very small size) and doctor's level at Indiana.
4. Because of rounding, CIP detail may not sum to total.
a. Rounds to less than 1 percent.

SOURCE: Reports provided by the individual State-owned institutions, 1990.

Table 4
DEGREES CONFERRED
1989-90, CHANGE FROM 1988-89 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1984-85 to 1989-90)

| Institution | Total |  |  |  |  |  |  |  | Graduate ${ }^{2}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Percentage change |  |  | $\frac{\text { Bachelor's }}{\text { Percentage change }}$ |  |  |  | Percentage change |  |  |  |
|  | Degrees | One-year change | Oneyear | Five-year average | Degrees | One-year change | Dneyear | $\begin{aligned} & \text { Five-year } \\ & \text { average } \end{aligned}$ | Degrees | One-year change | Oneyear | Five-year average |
| State-related |  |  |  |  |  |  |  |  |  |  |  |  |
| Lincoln | 219 | -22 | -9\% | 2\% | 134 | -32 | -19\% | 1\% | 85 | 10 | 13\% | 5\% |
| Penn State | 10,623 | 672 | 7 | 1 | 8,792 | 672 | 8 | 1 | 1,831 | 0 | 0 | 2 |
| Pittsburgh | 6,417 | 194 | 3 | 1 | 3,973 | 216 | 6 | 3 | 2,444 | -22 | -1 | -1 |
| Temple | 5,295 | -29 | -1 | 2 | 3,473 | 36 | 1 | 3 | 1,822 | -65 | -3 | a |
| Total | 22,554 | 815 | 4 | 1 | 16,372 | 892 | 6 | 2 | 6,182 | -77 | -1 | a |
| State-owned |  |  |  |  |  |  |  |  |  |  |  |  |
| Bloomsburg | 1,380 | 145 | 12 | 3 | 1,186 | 140 | 13 | 2 | 194 | 5 | 3 | 11 |
| California | 1,050 | 101 | 11 | 7 | 861 | 87 | 11 | 7 | 189 | 14 | 8 | 7 |
| Cheyney | 187 | 43 | 30 | -8 | 145 | 38 | 36 | -9 | 42 | 5 | 14 | 6 |
| CTarion | 1,114 | 11 | 1 | 2 | 924 | -31 | -3 | 1 | 190 | 42 | 28 | 4 |
| East Stroudsburg | 902 | 82 | 10 | 5 | 759 | 68 | 10 | 3 | 143 | 14 | 11 | 15 |
| Edinboro | 1,016 | -27 | -3 | 3 | 849 | -46 | -5 | 2 | 167 | 19 | 13 | 12 |
| Indiana | 2,403 | -158 | -6 | -1 | 1,921 | -261 | -12 | -2 | 482 | 103 | 27 | 9 |
| Kutztown | 1,193 | 68 | 6 | 4 | 1,076 | 75 | 7 | 5 | 117 | -7 | -6 | 2 |
| Lock Haven | 479 | 17 | 4 | -1 | 479 | 17 | 4 | -1 | b | $b$ | b | b |
| Mansfield | 497 | 3 | 1 | 1 | 410 | -25 | -6 | a | 87 | 28 | 47 | 16 |
| Millersville | 1,317 | 153 | 13 | 3 | 1,170 | 125 | 12 | 2 | 147 | 28 | 24 | 5 |
| Shippensburg | 1,252 | -195 | -13 | -1 | 982 | -139 | -12 | a | 270 | -56 | -17 | -5 |
| Slippery Rock | 1,210 | 25 | 2 | 3 | 1,080 | 35 | 3 | 3 | 130 | -10 | -7 | 4 |
| West Chester | 1,695 | 122 | 8 | 8 | 1,427 | 108 | 8 | 8 | 268 | 14 | 6 | 10 |
| Total | 15,695 | 390 | 3 | 2 | 13,269 | 191 | 1 | 2 | 2,426 | 199 | 9 | 6 |
| All institutions | 38,249 | 1,205 | 3 | 2 | 29,641 | 1,083 | 4 | 2 | 8,608 | 122 | 1 | 2 |

1. Data for each year represent the summer term preceding the academic year plus the academic year.
2. Graduate includes master's at all institutions except Lock Haven, first professional (excluding medical schools) and doctor's at Pittsburgh and Temple, and doctor's at Penn State and Indiana.
a. Rounds to less than 1 percent.
b. The graduate program is not included because of its very small size.

SOURCE: Reports provided by the individual institutions, 1985 to 1990.

WORKWEEK ACTIVITIES OF FULL-TIME EMPLOYED FACULTY BY TYPE OF ACTIVITY
1989-90, AND PERCENTAGE CHANGE FROM 1988-89

| Institution | Full-time employed faculty ${ }^{2}$ |  | Averaqe weekly hours ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { Percentage } \\ \text { change } \\ \hline 1988-89 \text { to } \\ 1989-90 \end{gathered}$ | Student contact |  |  |  | Instructional support | ```Percent- age change``` | Research | ```Percent- age change``` | Other university service | ```Percent- age change``` | Total workweek | $\begin{aligned} & \text { Percent- } \\ & \text { age } \\ & \text { change } \end{aligned}$ |
|  | Number |  | Undergraduate | ```Percent- age change``` | Graduate | ```Percent- age change``` |  |  |  |  |  |  |  |  |
| State-related |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lincoln | 71 | 4\% | 10.0 | 2\% | . 8 | -43\% | 18.7 | 4\% | 11.9 | 14\% | 11.4 | 2\% | 52.8 | 4\% |
| Penn State | 2,967 | 3 | 6.8 | 0 | 1.7 | -6 | 19.7 | -1 | 16.5 | 1 | 6.7 | -4 | 51.4 | -1 |
| Pittsburgh | 1,704 | 4 | 4.5 | 2 | 3.6 | 0 | 15.4 | -1 | 17.3 | 4 | 10.7 | -7 | 51.5 | -1 |
| Temple | 1,177 | 2 | 5.0 | -4 | 3.2 | 3 | 15.1 | -1 | 12.8 | 0 | 16.8 | 2 | 52.9 | a |
| Total | 5,919 | 3 | 5.8 | 0 | 2.5 | -4 | 17.5 | -1 | 16.0 | 2 | 9.9 | -3 | 51.7 | -1 |
| State-owned |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bloomsburg | 349 | 3 | 11.1 | -3 | . 7 | -22 | 17.8 | 0 | 9.4 | 9 | 15.8 | 4 | 54.8 | 2 |
| California | 293 | 5 | 9.7 | -9 | 1.1 | -15 | 16.3 | 0 | 8.3 | 9 | 17.6 | -4 | 53.0 | -2 |
| Cheyney | 112 | 13 | 11.4 | 4 | . 9 | 50 | 16.2 | 2 | 8.3 | 22 | 13.3 | -20 | 50.1 | -2 |
| $\stackrel{1}{\square}$ Clarion | 336 | 0 | 10.3 | -1 | . 7 | 0 | 16.8 | -3 | 8.4 | -2 | 14.9 | 1 | 51.1 | -2 |
| $\mathcal{T}$ East Stroudsburg | 251 | 3 | 10.6 | 6 | . 8 | -11 | 17.6 | 0 | 9.1 | -12 | 15.5 | -3 | 53.6 | -2 |
| 1 Edinboro | 371 | 14 | 12.3 | -5 | . 7 | 17 | 18.8 | -1 | 7.9 | 3 | 14.6 | 1 | 54.3 | -1 |
| Indiana | 680 | -1 | 10.5 | 3 | 1.1 | 0 | 17.5 | 4 | 10.6 | 3 | 18.7 | 0 | 58.4 | 2 |
| Kutztown | 347 | 0 | 11.7 | -7 | . 5 | 0 | 16.4 | -8 | 8.4 | -3 | 16.6 | -6 | 53.6 | -6 |
| Lock Haven | 182 | 6 | 11.5 | -5 | b | b | 16.8 | 3 | 7.5 | 4 | 18.3 | 0 | 54.1 | a |
| Mansfield | 170 | 2 | 10.5 | 2 | . 6 | 0 | 19.7 | 4 | 9.7 | 4 | 18.2 | -3 | 58.7 | 1 |
| Millersville | 313 | 2 | 11.5 | 6 | . 7 | 17 | 16.2 | 4 | 8.4 | -3 | 16.7 | -1 | 53.5 | 2 |
| Shippensburg | 305 | -2 | 9.5 | -3 | . 9 | 0 | 16.0 | -8 | 7.8 | -4 | 17.1 | 6 | 51.3 | -2 |
| Slippery Rock | 361 | 3 | 11.5 | -1 | . 7 | 17 | 19.2 | 2 | 10.4 | 8 | 17.8 | 5 | 59.6 | 3 |
| West Chester | 440 | -1 | 10.2 | -5 | 1.7 | 21 | 19.1 | 1 | 9.0 | -7 | 19.2 | -4 | 59.2 | -2 |
| Total | 4,510 | 2 | 10.8 | -2 | . 9 | 12 | 17.6 | 0 | 9.0 | 1 | 17.0 | -1 | 55.3 | 2 |
| All institutions | 10,429 | 3 | 7.9 | -1 | 1.8 | 0 | 17.5 | -1 | 13.0 | 2 | 12.9 | -2 | 53.1 | -1 |


2. The number of full-time employed faculty for $1989-90$ represents those reported by each institution 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 1 ess.
a. Rounds to less than 1 percent.
b. The graduate program is not included because of its very small size.

SOURCE: Reports provided by the individual institutions, 1989 and 1990.

AVERAGE INSTRUCTIONAL SALARIES OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY AND PERCENTAGE DISTRIBUTION BY RANK'
1989-90
(Dollars in thousands)

| Institution | FTE instructional faculty |  | Average instructional salary |  | Professor |  | Associate professor |  | Assistant professor |  | Instructor |  | No. rank ${ }^{2}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Percentage change |  | Percentage chanqe | Average instruc- | Pe | Average instruc- | Percent- |  | A | Average instruc- | en | Average instruc | ercent- |
|  | Number | $\begin{gathered} 1988-89 \text { to } \\ 1989-90 \end{gathered}$ | Amount | $\begin{gathered} 1988-89 \text { to } \\ 1989-90 \end{gathered}$ | tional salary | age of faculty | tional salary | age of faculty | tional salary | age of faculty | tional salary | age of faculty | tional salary | age of faculty |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lincoln | 101 | 10\% | \$24.5 | 6\% | \$36.0 | 18\% | \$29.7 | 15\% | \$23.4 | 33\% | \$16.4 | 14\% | \$17.4 | 20\% |
| Penn State | 3,392 | 1 | 36.0 | 8 | 59.0 | 15 | 42.9 | 18 | 35.2 | 26 | 24.1 | 18 | 25.6 | 23 |
| Pittsburgh | 1,748 | 1 | 35.9 | 7 | 55.8 | 20 | 39.7 | 25 | 31.4 | 21 | 19.7 | 13 | 27.1 | 21 |
| Temple | 1,559 | 2 | 31.9 | 5 | 48.1 | 26 | 37.5 | 21 | 31.2 | 15 | 17.9 | 16 | 18.3 | 22 |
| Total | 6,800 | 1 | 34.8 | 7 | 54.4 | 19 | 40.4 | 20 | 33.4 | 22 | 21.7 | 16 | 24.2 | 23 |
| State-owned |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bloomsburg | 371 | 4 | 37.7 | 7 | 47.8 | 28 | 38.9 | 32 | 31.2 | 31 | 24.8 | 9 | na | 0 |
| California | 309 | 7 | 39.2 | 10 | 49.4 | 38 | 40.6 | 27 | 32.1 | 19 | 22.3 | 16 | 33.2 | a |
| Cheyney | 99 | 8 | 43.9 | 7 | 51.0 | 36 | 40.7 | 46 | 37.2 | 11 | 33.4 | 6 | 79.7 | 1 |
| $\stackrel{\rightharpoonup}{\bullet}$ Clarion | 345 | 3 | 38.3 | 8 | 49.5 | 29 | 40.2 | 29 | 31.8 | 28 | 24.3 | 14 | 28.4 | a |
| $\infty$ East Stroudsburg | - 282 | 6 | 37.0 | 5 | 45.0 | 39 | 36.1 | 28 | 30.5 | 26 | 18.6 | 7 | 46.1 | a |
| 1 Edinboro | 405 | 12 | 37.6 | 2 | 46.4 | 37 | 39.4 | 21 | 30.4 | 32 | 23.4 | 10 | na | 0 |
| Indiana | 681 | 1 | 39.0 | 8 | 47.7 | 35 | 39.1 | 28 | 32.4 | 28 | 23.8 | 7 | 26.4 | 2 |
| Kutztown | 354 | 5 | 39.8 | 5 | 48.9 | 30 | 40.5 | 34 | 33.2 | 30 | 25.8 | 6 | 58.0 | $a$ |
| Lock Haven | 168 | 6 | 39.3 | 1 | 50.7 | 29 | 40.8 | 34 | 31.6 | 25 | 23.3 | 12 | 26.3 | a |
| Mansfield | 170 | 5 | 38.9 | 5 | 48.5 | 30 | 40.6 | 28 | 33.4 | 30 | 24.2 | 12 | na | 0 |
| Millersville | 355 | 2 | 38.6 | 7 | 48.5 | 31 | 40.5 | 29 | 32.5 | 27 | 23.7 | 13 | na | 0 |
| Shippensburg | 308 | a | 41.8 | 9 | 48.7 | 48 | 39.1 | 27 | 32.8 | 19 | 26.1 | 6 | na | 0 |
| Slippery Rock | 383 | 3 | 40.7 | 8 | 49.0 | 38 | 39.8 | 25 | 31.9 | 29 | 37.1 | 8 | 49.6 | a |
| West Chester | 556 | 7 | 38.6 | 6 | 50.2 | 28 | 41.6 | 29 | 32.0 | 28 | 22.8 | 15 | 63.5 | a |
| Total | 4,786 | 4 | 39.0 | 6 | 48.4 | 34 | 39.9 | 29 | 32.0 | 27 | 24.5 | 10 | 33.8 | a |
| All institutions | 11,586 | 2 | 36.6 | 7 | 51.0 | 25 | 40.1 | 24 | 32.7 | 24 | 22.5 | 14 | 24.3 | 13 |



 year plus the academic year
 administrators, librarians, research staff, graduate assistants and volunteers.
a. Rounds to Tess than 1 percent.
na. Not applicable.
SOURCE: Reports provided by the individual institutions, 1989 and 1990.

Table 7
AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT BY ACADEMIC DIVISION AND LEVEL' 1989-90, CHANGE FROM 1988-89 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1984-85 to 1989-90)


[^5]Table 8A
LINCOLN UNIVERSITY
AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT ${ }^{7}$ BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION²

1989-90

| CIP classification | Undergraduate |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Lower division | Upper division | Total undergraduate | Master's | Graduate <br> First professional | Doctor's |
| Agriculture | -- | -- | -- | -- | - | -- |
| Architecture and environmental design | -- | -- | -- | -- | -- | -- |
| Area and ethnic studies |  |  |  | -- | - |  |
| Business | \$1,188 | \$1,634 | \$1,433 | -- | - | -- |
| Communications | -- | -- | -- | -- | -- | -- |
| Computer and information sciences | -- | -- | -- | -- | -- | -- |
| Consumer, personal and miscellaneous services |  |  |  | -- | -- |  |
| Education | 1,698 | 3,004 | 1,861 | -- | -- | -- |
| Engineering | -- | ,-- | - | -- | -- | -- |
| Foreign languages | 1,115 | 3,327 | 1,478 | -- | -- | -- |
| Health | -- | -- | -- | -- | -- | -- |
| Home economics | -- | - | -- | -- | -- | - |
| Industrial arts | -- | -- | -- | - | -- | -- |
| Law | -- | -- | -- | -- | -- | -- |
| Letters | 1,415 | 3,515 | 1,631 | -- | -- | -- |
| Liberal/general studies | -- | -- | -- | -- | -- | -- |
| Library and archival sciences | -- | -- | -- | -- | -- | -- |
| Life sciences | 1,330 | 5,794 | 1,814 | -- | -- | -- |
| Mathematics | 1,357 | 2,806 | 1,467 | -- | -- | -- |
| Military sciences | -- | -- | -- | -- | -- | -- |
| Multi/interdisciplinary studies | 1,350 | -- | 1,350 | -- | -- | -- |
| Parks and recreation | -- | -- | -- | -- | -- | -- |
| Personal and social deveiopment | -- | -- | -- | -- | -- | -- |
| Philosophy, religion and theology | 1,536 | 1,900 | 1,543 | -- | -- | -- |
| Physical sciences | 2,234 | 5,424 | 2,794 | -- | -- | -- |
| Psychology | 1,108 | 3,442 | 1,794 | -- | -- | -- |
| Public affairs and protective services | -- | . -- | -- | \$1,579 | -- | -- |
| Social sciences | 2,092 | 2,609 | 2,279 | -- | -- | -- |
| Trade and industrial | -- | -- | -- | -- | -- | -- |
| Visual and performing arts | 5 - | -- | -- | -- | -- | -- |
| Other | -- | -- | -- | - | -- | -- |
| Total | 1,554 | 2,844 | 1,809 | 1,579 | -- | -- |

1. The average instructional faculty salary cost per full-time equivalent student for each level is calculated as follows: the instructional salary for each rank is assigned by level according to the percentage distribution of the course (assigned) credits within each rank. The salary for each rank is summed by level and divided by total full-time equivaient students for that level. In the case of individual instruction, one course (assigned) credit is attributed to every three studerit credit hours generated.
2. Classification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics.

SOURCE: Reports provided by Lincoln University, 1990.

THE PENNSYLVANIA STATE UNIVERSITY
AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT ${ }^{1}$ BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION ${ }^{2}$

1989-90

| CIP classification | Undergraduate |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Lower division | Upper division | Tota1 undergraduate | Master's | Graduate 3 First professional | Doctor's |
| Agriculture | \$1,631 | \$2,546 | \$2,316 | \$5,793 | -- | \$10,877 |
| Architecture and environmental design | 1,079 | 4,082 | 2,348 | 23,426 | -- | 20,150 |
| Area and ethnic studies | 1,254 | 2,787 | 1,817 | 3,264 | -- | 16,399 |
| Business | 1,122 | 1,539 | 1,377 | 2,396 | - | 6,959 |
| Cormunications | 1,154 | 2,305 | 1,952 | 4,395 | -- | 8,947 |
| Computer and information sciences | 1,611 | 2,507 | 1,761 | 2,842 | -- | 11,758 |
| Consumer, personal and miscellaneous services |  |  |  |  |  |  |
| Education | 908 | 2,135 | 1,507 | 1,358 | -- | 6,650 |
| Engineering | 2,672 | 2,388 | 2,845 | 4,186 | - | 11,722 |
| Foreign languages | 1,208 | 2,982 | 1,522 | 4,681 | -- | 6,835 |
| Health | 809 | 2,812 | 2,138 | 4,614 | -- | 9,035 |
| Home economics | 568 | 1;649 | 923 | 4,393 | - | 9,601 |
| Industrial arts | -- | -- | -- | -_ | -- | -_ |
| Law | -- | -- | -- | -- | -- | - |
| Letters | 1,357 | 1,764 | 1,483 | 3,336 | -- | 8,879 |
| Liberal/general studies | 642 | 815 | 722 | - | -- | - |
| Library and archival sciences | 3,868 | 1,197 | 1,865 | -- | -- |  |
| Life sciences | 806 | 1,600 | 988 | 7,851 | -- | 10,523 |
| Mathematics | 1,170 | 2,312 | 1,304 | 3,070 | -- | 18,281 |
| Military sciences | - | -- | -- | -- | - | -- |
| Multi/interdisciplinary studies | 1,311 | 2,823 | 1,996 | 3,335 | -- | 11,142 |
| Parks and recreation | 526 | 1,712 | 1,580 | 4,108 | -- | 16,522 |
| Personal and social development | - | - | -- | - | -- | -- |
| Philosophy, religion and theology | 981 | 2,364 | 1,194 | 5,118 | -- | 16,742 |
| Physical sciences | 1,255 | 2,394 | 1,403 | 7,299 | - | 13,074 |
| Psychology | 607 | 1,504 | 849 | 4,195 | -- | 8,413 |
| Public affairs and protective services | 1,139 | 2,274 | 1,956 | 2,847 | -- | 8,173 |
| Social sciences | 871 | 1,630 | 1,090 | 3,373 |  | 11,455 |
| Trade and industrial | 2,617 | - | 2,622 | -- |  |  |
| Visual and performing arts | 894 | 3,337 | 1,366 | 7,973 | -- | 9,830 |
| Other | -- | -- | -- | -- | -- |  |
| Total | 1,152 | 2,047 | 1,468 | 3,167 | -- | 10,168 |

1. The average instructional faculty salary cost per full-time equivalent student for each Tevel is calculated as follows: the instructional salary for each rank is assigned by level according to the percentage distribution of the course (assigned) credits within each rank. The salary for each rank is summed by level and divided by total full-time equivalent students for that level. In the case of individual instruction, one course (assigned) credit is attributed to every three student credit hours generated.
2. Classification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics.
3. Excludes medical school data.

SOURCE: Reports provided by The Pennsylvania State University, 1990.

Table 8C
UNIVERSITY OF PITTSBURGH
AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENTI BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION ${ }^{2}$

1989-90

| CIP classification | Undergraduate |  |  | Graduate 3 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total |  |  |  |
|  | Lower division | Upper division | undergraduate | Master's | First professional | Doctor's |
| Agriculture | -- | - | -- | -- | -- | -- |
| Architecture and environmental design | -- | -- | - | -- | -- |  |
| Area and ethnic studies | \$1,139 | \$2,420 | \$1,550 | \$12,321 | -- | \$18,968 |
| Business | 1,480 | 1,568 | 1,542 | 1,417 | -- | 17,667 |
| Communications | 1,348 | 2,771 | 2,624 | 2,587 | -- | , |
| Computer and information sciences | 1,058 | 2,728 | 1,478 | 3,353 | -- | 10,877 |
| Consumer, personal and miscellaneous services | -- | -- | -- | -- | -- | -- |
| Education | 1,388 | 2,593 | 2,116 | 2,428 | -- | 7,082 |
| Engineering | 1,879 | 2,480 | 2,222 | 4,955 | -- | 9,216 |
| Foreign languages | 1,476 | 2,145 | 1,613 | 5,341 | -- | 8,472 |
| Health | 2,843 | 2,397 | 2,483 | 9,748 | -- | 20,306 |
| Home economics | 1,064 | 1,877 | 1,867 | 4,151 | -- | -- |
| Industrial arts | -- | -- | -- | -- | - |  |
| Law | -- | -- | -- | -- | \$1,476 | -- |
| Letters | 1,263 | 1,335 | 1,286 | 4,554 | +1, | 7,421 |
| Liberal/general studies | -_ | -- | -- | -- | -- | -- |
| Library and archival sciences |  | -- | -- | 2,733 | -- | 8,752 |
| Life sciences | 1,102 | 3,011 | 1,573 | 5,885 | -- | 11,407 |
| Mathematics | 1,147 | 2,436 | 1,304 | 3,230 | -- | 14,730 |
| Military sciences | -- | -- | -- | -- | -- | -- |
| Multi/interdisciplinary studies | 984 | 1,550 | 1,212 | 5,747 | -- | 11,814 |
| Parks and recreation | -- | -- | -- | -- | -- | -- |
| Personal and social development | -- | -- | -- | -- | -- | -- |
| Philosophy, religion and theology | 1,013 | 2,487 | 1,225 | 5,099 | -- | 13,766 |
| Physical sciences | 949 | 4,154 | 1,154 | 5,724 | -- | 7,804 |
| Psychology <br> Public affairs and | 510 | 1,406 | 689 | 6,121 | -- | 7,218 |
| protective services | 953 | 1,732 | 1,512 | 3,437 | -- | 5,391 |
| Social sciences | 995 | 1,921 | 1,254 | 7,447 | -- | 9,032 |
| Trade and industrial | 1,031 | -735 |  | --- | -- | --- |
| Visual and performing arts | 1,031 | 2,735 | 1,343 | 5,814 | -- | 9,545 |
| Other | -- | -- | -- | -- | -- | -- |
| Total | 1,126 | 2,072 | 1,438 | 3,995 | 1,476 | 9,309 |

1. The average instructional faculty salary cost per full-time equivalent student for each level is calculated as follows: the instructional salary for each rank is assigned by level according to the percentage distribution of the course (assigned) credits within each rank. The salary for each rank is summed by level and divided by total full-time equivalent students for that level. In the case of individual instruction, one course (assigned) credit is attributed to every three student credit hours generated.
2. Classification of Instructional Programs, U.S. Department of Education,

National Center for Education Statistics.
3. Excludes full-time equivalent dental students, and medical school data.

SOURCE: Reports provided by University of Pittsburgh, 1990.

Table 80
TEMPLE UNIVERSITY
AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT ${ }^{1}$ BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION2

1989-90

| CIP classification | Underaraduate |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Lower division | Upper division | Total undergraduate | Master's | Graduate ${ }^{3}$ <br> First professional | Doctor's |
| Agriculture | \$1,770 | \$2,401 | \$2,043 | \$4,577 | -- | -- |
| Architecture and environmental design | -- | - | -- | -- | -- |  |
| Area and ethnic studies | 1,049 | 1,778 | 1,336 | 2,700 |  | \$2,655 |
| Business | 969 | 1,270 | 1,158 | 2,056 | \$1,200 | 7,803 |
| Communications | 1,239 | 1,863 | 1,585 | 3,223 | - - | 6,315 |
| Computer and information sciences | 1,148 | 2,060 | 1,576 | 2,729 | -- | 6,049 |
| Consumer, personal and miscellaneous services | -- | -- | -- | -- | -- | -- |
| Education | 968 | 1,588 | 1,322 | 1,716 | - | 4,127 |
| Engineering | 1,522 | 2,258 | 1,989 | 3,251 | -- | 3,298 |
| Foreign languages | 1,331 | 1,893 | 1,513 | 2,712 | -- | 5,950 |
| Health | 2,098 | 1,621 | 1,672 | 3,458 | 5,640 | 7,252 |
| Home economics | -~ | -- | -- | -- | -- | -- |
| Industrial arts | -- | - | - | -- | - | - |
| Law | 828 | 4,970 | 3,058 | 3,235 | 2,199 | -- |
| Letters | 1,183 | 1,629 | 1,304 | 4,409 | -- | 4,638 |
| Liberal/general studies | 939 | 968 | 944 | 1,470 | -- | - |
| Library and archival sciences | - | -- | -- | -- | -- | -- |
| Life sciences | 570 | 890 | 760 | 4,195 | 420 | 7,477 |
| Mathematics | 1,210 | 1,936 | 1,351 | 3,562 | -- | 7,627 |
| Military sciences | -- | -- | -- | -- | -- | -- |
| Multi/interdisciplinary studies | -- |  | -- | -- | -- |  |
| Parks and recreation | 1,110 | 1,492 | 1,336 | 2,882 | -- | 4,959 |
| Personal and social development | 1,100 | -- | 1,100 | -- | -- | -- |
| Philosophy, religion and theology | 1,078 | 1,591 | 1,252 | 6,019 | -- | 7,325 |
| Physical sciences | 1,015 | 1,539 | 1,181 | 4,335 | -- | 8,040 |
| Psychology | 934 | 1,581 | 1,223 | 2,230 | -- | 4,873 |
| Public affairs and protective services | 909 | 1,790 | 1,431 | 2,689 | 553 |  |
| Social sciences | 1,092 | 1,733 | 1,361 | 2,816 | -- | 6,331 |
| Trade and industrial |  |  |  |  |  |  |
| Visual and performing arts | 2,067 | 2,924 | 2,470 | 5,151 | -- | 7,479 |
| Other | 2,067 | 2, | 2,470 | 5, | -- |  |
| Total | 1,168 | 1,684 | 1,411 | 2,712 | 3,157 | 5,425 |

1. The average instructional faculty salary cost per full-time equivalent student for each level is calculated as follows: the instructional salary for each rank is assigned by level according to the percentage distribution of the course (assigned) credits within each rank. The salary for each rank is summed by level and divided by total full-time equivalent students for that level. In the case of individual instruction, one course (assigned) credit is attributed to every three student credit hours generated.
2. CTassification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics.
3. Excludes medical school data.

SOURCE: Reports provided by Temple University, 1990.

Table 8E
STATE-OWNED UNIVERSITIES
AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT ${ }^{1}$ BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION ${ }^{2}$ 1989-90

| CIP classification | Undergraduate |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Lower division | Upper division | Total undergraduate | Master's ${ }^{3}$ | Graduate <br> First professional | Doctor's ${ }^{4}$ |
| Agriculture | \$1,447 | \$1,736 | \$1,522 | \$3,276 | -- | - |
| Architecture and environmental design | 2,994 | 6,635 | 3,094 | -- | -- | -- |
| Area and ethnic studies | 1,839 | 2,398 | 2,033 | 3,532 | - |  |
| Business | 1,436 | 2,040 | 1,772 | 2,917 | - |  |
| Communications | 1,594 | 2,628 | 1,970 | 3,712 | - | - |
| Computer and information sciences | 1,617 | 3,572 | 1,928 | 2,424 | -- | -- |
| Consumer, personal and miscellaneous services | -- | -- | -- | -- | -- |  |
| Education | 1,546 | 2,703 | 2,157 | 2,324 | - |  |
| Engineering | 2,446 | 3,404 | 3,030 | 1,574 | -- |  |
| Foreign 1 anguages | 2,027 | 4,403 | 2,373 | 3,279 | -- |  |
| Health | 3,337 | 4,138 | 3,921 | 3,716 | -- |  |
| Home economics | 1,509 | 2,629 | 2,085 | 4,966 | -- |  |
| Industrial arts | 3,930 | 3,113 | 3,570 | 4,271 | -- |  |
| Law | 1,823 | 1,437 | 1,710 | 2,041 | -- | - |
| Letters | 1,713 | 2,924 | 1,893 | 4,131 | -- |  |
| Liberal/general studies | 775 | 2,766 | 847 | -- | -- | -- |
| Library and archival sciences | 2,158 | 3,872 | 3,153 | 1,398 | -- | -- |
| Life sciences | 1,728 | 5,303 | 2,223 | 7,223 | -_ | -- |
| Mathematics | 1,683 | 3,035 | 1,827 | 4,045 | -- | -- |
| Military sciences | - | -- | -- | - | -- | -- |
| Multi/interdisciplinary studies | 1,250 | 2,527 | 1,701 | 2,114 | -- | -- |
| Parks and recreation | 1,691 | 3,060 | 2,227 | 6,444 | -- | -- |
| Personal and social development | 1,881 | 2,237 | 1,964 | 2,941 | -- | -- |
| Philosophy, religion and theology | 1,471 | 3,213 | 1,617 | 4,823 | -- | -- |
| Physical sciences | 2,111 | 7,896 | 2,675 | 7,058 | -- | -- |
| Psychology | 1,225 | 2,607 | 1,563 | 2,953 | -- | -- |
| Public affairs and protective services | 1,466 | 2,460 | 1,940 | 2,620 | -- | -- |
| Social sciences | 1,270 | 2,896 | 1,582 | 4,693 | - | -- |
| Trade and industrial | 2,640 | 3,507 | 3,298 | - | -- | -- |
| Visual and performing arts | 1,813 | 4,863 | 2,345 | 8,865 | -- | -- |
| Other | 1,555 | 4,563 | 1,757 | 2,666 | -- | -- |
| Total | 1,606 | 2,934 | 1,990 | 3,031 | -- | -- |

1. The average instructional faculty salary cost per full-time equivalent student for each level is calculated as follows: the instructional salary for each rank is assigned by level according to the percentage distribution of the course (assigned) credits within each rank. The salary for each rank is summed by 1 evel and divided by total full-time equivalent students for that level. In the case of individual instruction, one course (assigned) credit is attributed to every three student credit hours generated.
2. Classification of Instructional Programs, U.S. Department of Education, National Center for Education Statistics.
3. The master's program at Lock Haven is not included because of its very small size.
4. Doctor's at Indiana included in master's.

SOURCE: Reports provided by the individual State-owned institutions, 1990.

Table 9
AVERAGE CLASS SIZES IN CLASSROOM INSTRUCTION BY ACADEMIC DIVISION AND LEVEL'
989-90, CHANGE FROM 1988-89 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1984-85 to 1989-90)

| Institution | Underaraduate |  |  |  |  |  |  |  |  | Master's |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Percen | tage change |  | Percen | Faqe change |  | Percen | tage chanqe | Percentage change |  |  |
|  | $\begin{aligned} & \text { Class } \\ & \text { size } \end{aligned}$ | Oneyear | Five-year average | $\begin{aligned} & \text { Class } \\ & \text { size } \end{aligned}$ | Oneyear | Five-year average | Class size | Oneyear | Five-year average | $\begin{aligned} & \text { Class } \\ & \text { size } \end{aligned}$ | Oneyear | Five-year average |
| State-related |  |  |  |  |  |  |  |  |  |  |  |  |
| Lincoln | 21 | 0\% | 3\% | 13 | 8\% | 9\% | 19 | 6\% | 5\% | 15 | 7\% | 7\% |
| Penn State | 31 | 0 | 1 | 28 | -3 | -1 | 30 | 0 | 1 | 15 | 0 | 5 |
| Pittsburgh | 32 | -3 | 2 | 26 | -4 | 3 | 30 | -3 | 2 | 18 | 0 | 2 |
| Temple | 27 | 4 | 2 | 25 | 4 | 4 | 26 | 4 | 3 | 14 | 8 | 2 |
| Total | 30 | 0 | 1 | 26 | -4 | 1 | 29 | 0 | 1 | 15 | 0 | 1 |
| State-owned |  |  |  |  |  |  |  |  |  |  |  |  |
| Bloomsturg | 25 | 0 | -1 | 16 | -6 | -3 | 21 | -5 | -2 | 13 | -7 | 0 |
| California | 30 | -3 | 1 | 19 | 0 | 4 | 25 | -4 | 1 | 11 | -8 | 4 |
| Cheyney | 20 | 5 | 4 | 11 | 0 | 2 | 17 | 0 | 3 | 14 | 8 | 15 |
| Clarion | 36 | 0 | 2 | 16 | -6 | -4 | 27 | -4 | -1 | 13 | 0 | 2 |
| East Stroudsburg | 29 | 4 | 1 | 16 | 0 | -1 | 24 | 0 | 0 | 20 | 25 | 9 |
| Edinboro | 26 | -4 | 1 | 15 | -6 | -1 | 22 | -4 | 0 | 9 | 0 | 2 |
| Indiana | 31 | 0 | 1 | 17 | 0 | 0 | 25 | 0 | 1 | 9 | 12 | 6 |
| Kutztown | 30 | 3 | 2 | 16 | 0 | 5 | 24 | 4 | 3 | 13 | -7 | 6 |
| Lock Haven | 28 | 0 | 1 | 13 | 8 | -6 | 21 | 0 | -2 | a | a | a |
| Mansfield | 29 | 4 | 3 | 9 | 12 | -2 | 18 | 6 | 0 | 9 | 12 | 6 |
| Millersville | 24 | -4 | -2 | 13 | 0 | -1 | 19 | -5 | -3 | 12 | -8 | 0 |
| Shippensburg | 29 | -9 | 1 | 19 | -17 | -2 | 25 | -14 | 0 | 10 | -23 | -6 |
| Slippery Rock | 29 | -3 | -1 | 14 | -7 | -1 | 24 | 0 | 0 | 15 | 15 | 7 |
| West Chester | 24 | 0 | 0 | 16 | 0 | 1 | 21 | 0 | 0 | 11 | 10 | 2 |
| Total | 28 | 0 | 1 | 15 | -6 | -1 | 23 | 0 | 0 | 11 | 0 | 2 |
| A11 institutions ${ }^{2}$ | 29 | 0 | 1 | 21 | 0 | 0 | 26 | 0 | 1 | 14 | 8 | 3 |

1. Average class size for each level is calculated by dividing total classroom student credit hours by total classroom course (assigned) credits
2. Because of rounding, percentage changes for all institutions may not appear to reflect institutional group changes.
a. The master's program is not included because of its very small size.

SOURCE: Reports provided by the individual institutions, 1985 to 1990.

Table 10
ACADEMIC YEAR TUITION AND REQUIRED FEES FOR FULL-TIME STUDENTS BY ACADEMIC LEVEL AND RESIDENCE 1989-90, CHANGE FROM 1988-89 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1984-85 to 1989-90)

| Institution | Underaraduate |  |  |  |  |  | Graduate ${ }^{1}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In-State |  |  | Out-of-State |  |  | In-State |  |  | Out-of-State |  |  |
|  | ```Tuition and required fees``` | Percentage change |  | ```Tuition and required fees``` | Percentage change | tage change Five-year average | ```Tuition and required fees``` | Percentage chanqe |  | ```Tuition and required fees``` | Percen One- year | tage change Five-year average |
| State-related |  |  |  |  |  |  |  |  |  |  |  |  |
| Lincoln | \$2,400 | 0\% | 6\% | \$3,500 | 0\% | 5\% | \$3,250 | 0\% | 8\% | \$4,850 | 0\% | 4\% |
| Penn State ${ }^{2}$ | 3,754 | 4 | 9 | 7,900 | 9 | 11 | 4,198 | 9 | 11 | 8,388 | 9 | 11 |
| Pittsburgh ${ }^{2}$ | 4,086 | 7 | 10 | 8,106 | 8 | 10 | 5,046 | 9 | 11 | 9,876 | 8 | 11 |
| Temple | 4,046 | 4 | 8 | 7,308 | 7 | 9 | 4,610 | 7 | 8 | 5,786 | 8 | 9 |
| Average ${ }^{2}$ | 3,572 | 4 | 8 | 6,704 | 7 | 9 | 4,276 | 7 | 10 | 7,225 | 7 | 9 |
| State-owned |  |  |  |  |  |  |  |  |  |  |  |  |
| Bloomsburg | 2,398 | 5 | 8 | 4,254 | 15 | 9 | 2,288 | 4 | 8 | 2,758 | 12 | 12 |
| California | 2,548 | 2 | 8 | 4,404 | 12 | 9 | 2,548 | 2 | 9 | 2,968 | 7 | 12 |
| Cheyney | 2,388 | 2 | 8 | 4,244 | 15 | 9 | 2,303 | 2 | 7 | 2,723 | 8 | 10 |
| Clarion | 2,418 | 3 | 8 | 4,274 | 13 | 9 | 2,328 | 1 | 7 | 2,748 | 7 | 11 |
| East Stroudsburg | 2,392 | 8 | 7 | 4,248 | 17 | 9 | 2,324 | 5 | 8 | 2,740 | 10 | 11 |
| Edinborg | 2,438 | 2 | 8 | 4,294 | 13 | 9 | 2,432 | 2 | 8 | 2,852 | 7 | 11 |
| Indiana | 2,484 | 9 | 8 | 4,340 | 18 | 9 | 2,404 | 8 | 8 | 2,728 | 9 | 10 |
| Kutztown | 2,380 | 2 | 8 | 4,236 | 13 | 9 | 2,250 | 2 | 9 | 2,670 | 8 | 12 |
| Lock Haven | 2,358 | 8 | 8 | 4,214 | 17 | 10 | 2 | 2 | a | - ${ }^{\text {a }}$ | a | a |
| Mansfield | 2,435 | 3 | 8 | 4,309 | 14 | 9 | 2,318 | 4 | 8 | 2,738 | 9 | 11 |
| Millersville | 2,536 | 8 | 10 | 4,392 | 16 | 11 | 2,457 | 10 | 11 | 2,877 | 15 | 14 |
| Shippensburg | 2,444 | 2 | 7 | 4,300 | 13 | 9 | 2,338 | 2 | 8 | 2,758 | 8 | 11 |
| Slippery Rock | 2,504 | 3 | 8 | 4,360 | 13 | 10 | 2,504 | 3 | 8 | 2,924 | 8 | 12 |
| West Chester | 2,398 | 7 | 8 | 4,254 | 16 | 10 | 2,398 | 7 | 8 | 2,818 | 12 | 12 |
| Average ${ }^{2}$ | 2,437 | 4 | 8 | 4,294 | 14 | 9 | 2,376 | 4 | 8 | 2,792 | 9 | 11 |

1. Graduate excludes first professional level.
2. Main campus data only.
a. The graduate program is not included because of its very small size.

SOURCE: Pennsylvania Department of Education, Basic Student Charges at Institutions of Higher Education, $1984-85$ to $1987-88$ and Colleges and Universities-Basic Student Charges, 1988-89 and 1989-90.

Table 11
tUition and fee revenues related to full-time equivalent students ${ }^{1}$
1989-90, CHANGE FROM 1988-89 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1984-85 to 1989-90)

| Institution | Tuition and fee revenues |  |  | Tuition and fee revenues per FTE student |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage change |  |  |  | One-year change | Percentage change |  |
|  | $\begin{aligned} & \text { Amount } \\ & (000 \mathrm{~s}) \end{aligned}$ | Oneyear | Five-year average | Amount |  | Oneyear | Five-year average |
| State-related |  |  |  |  |  |  |  |
| Lincoln | \$4,389 | 6\% | 8\% | \$3,150 | \$10 | a | 5\% |
| Penn State | 287,721 | 7 | 14 | 4,580 | 240 | 6\% | 11 |
| Pittsburgh | 156,550 | 8 | 11 | 5,260 | 320 | 6 | 10 |
| Temple | 132,071 | 7 | 11 | 4,890 | 220 | 5 | 8 |
| Total | 580,731 | 7 | 12 | 4,800 | 260 | 6 | 10 |
| State-owned |  |  |  |  |  |  |  |
| Bloomsburg | 17,641 | 15 | 16 | 2,500 | 240 | 11 | 11 |
| California | 14,774 | 13 | 22 | 2,360 | 190 | 9 | 12 |
| Cheyney | 4,312 | 27 | 7 | 3,010 | 280 | 10 | 13 |
| Clarion | 15,642 | 6 | 13 | 2,480 | 140 | 6 | 10 |
| East Stroudsburg | 15,240 | 21 | 22 | 2,900 | 300 | 12 | 14 |
| Edinboro | 18,255 | 16 | 21 | 2,570 | 210 | 9 | 13 |
| Indiana | 34,608 | 8 | 15 | 2,530 | 90 | 4 | 13 |
| Kutztown | 18,840 | 17 | 19 | 2,730 | 270 | 11 | 12 |
| Lock Haven | 8,302 | 17 | 19 | 2,610 | 210 | 9 | 13 |
| Mansfield | 8,571 | 21 | 17 | 2,820 | 320 | 13 | 14 |
| Millersville | 19,643 | 16 | 19 | 2,790 | 340 | 14 | 14 |
| Shippensburg | 15,338 | 9 | 14 | 2,570 | 180 | 8 | 12 |
| Slippery Rock | 18,225 | 11 | 15 | 2,560 | 190 | 8 | 10 |
| West Chester | 27,609 | 13 | 20 | 2,790 | 240 | 9 | 13 |
| Total | 237,000 | 13 | 17 | 2,630 | 220 | 9 | 12 |
| All institutions | 817,731 | 9 | 14 | 3,870 | 220 | 6 | 10 |

1. FTE students include in-State and out-of-State undergraduate and graduate students.
a. Rounds to less than 1 percent.

SOURCE: FTE students - reparts provided by the individual institutions, 1985 to 1990; tuition and fee revenues - data provided by the individual State-related institutions and the State System of Higher Education, Commonweal th of Pennsylvania, 1985 to 1990.

STATE APPROPRIATIONS FOR INSTRUCTION RELATED TO FULL-TIME EQUIVALENT STUDENTS 1989-90, CHANGE FROM 1988-89 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1984-85 to 1989-90)

| Institution | Educational and general appropriations (000s) | Tuition Challenge Grants (000s) | Total instructional appropriations (000s) | Percentage chanqe |  | Total instructional appropriations per FTE student |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | Percen | aqe change |
|  |  |  |  | Oneyear | Five-year average | Amount | One-year change | Oneyear | Five-year average |
| State-related |  |  |  |  |  |  |  |  |  |
| Lincoln | \$8,896 | $\$ 95$ | \$8,991 | 8\% | 13\% | \$6,450 | \$140 | 2\% | 9\% |
| Penn State, | 161,158 | 3,313 | 164,471 | 9 | 8 | 2,620 | 190 | 8 | 5 |
| Pittsburgh ${ }^{1}$ | 111,290 | 2,124 | 113,414 | 9 | 8 | 3,810 | 260 | 7 | 7 |
| Temple | 121,000 | 2,251 | 123,251 | 9 | 8 | 4,560 | 290 | 7 | 5 |
| Total | 402,344 | 7,783 | 410,127 | 9 | 8 | 3,390 | 230 | 7 | 6 |
| State-owned |  |  |  |  |  |  |  |  |  |
| Bloomsburg | 25,621 | 414 | 26,035 | 10 | 7 | 3,690 | 200 | 6 | 4 |
| California | 21,257 | 376 | 21,633 | 11 | 7 | 3,450 | 210 | 6 | a |
| Cheyney | 12,481 | 53 | 12,534 | a | 2 | 8,750 | -1,310 | -13 | 7 |
| Clarion | 22,960 | 387 | 23,347 | 8 | 7 | 3,700 | 250 | 7 | 5 |
| East Stroudsburg | 18,568 | 210 | 18,778 | 8 | 6 | 3,580 | -20 | -1 | 2 |
| Edinboro | 23,037 | 401 | 23,438 | 8 | 6 | 3,300 | 40 | 1 | 1 |
| Indiana | 46,271 | 844 | 47,115 | 8 | 7 | 3,440 | 120 | 4 | 5 |
| Kutztown | 24,123 | 383 | 24,506 | 11 | 9 | 3,540 | 150 | 4 | 4 |
| Lock Haven | 13,823 | 199 | 14,022 | 8 | 7 | 4,410 | 20 | a | 2 |
| Mansfield | 13,827 | 160 | 13,987 | 6 | 6 | 4,610 | -50 | -1 | 4 |
| Millersville | 25,460 | 390 | 25,850 | 10 | 7 | 3,680 | 270 | 8 | 4 |
| Shippensburg | 22,609 | 368 | 22,977 | 8 | 6 | 3,840 | 240 | 7 | 5 |
| Slippery Rock | 25,169 | 409 | 25,578 | 8 | 9 | 3,590 | 180 | 5 | 5 |
| West Chester | 34,955 | 470 | 35,425 | 11 | 8 | 3,580 | 250 | 8 | 4 |
| Total ${ }^{2}$ | 330,161 | 5,064 | 335,225 | 9 | 7 | 3,710 | 150 | 4 | 3 |
| All institutions ${ }^{2}$ | 732,505 | 12,847 | 745,352 | 9 | 7 | 3,530 | 200 | 6 | 5 |

1. Includes appropriation for Titusville campus.
2. Excludes amount of appropriation allocated to Board of Governors/Chancellor's Office and System Reserve.
a. Rounds to less than 1 percent.

SOURCE: FTE students - reports provided by the individual institutions, 1985 to 1990; instructional appropriations Governor's Executive Budget, 1986-87 to 1990-97 and data provided by the State System of Higher Education, Cormonweal th of Pennsylvania, 1985 to 1990.

Table 13
TUITION AND FEE REVENUES, STATE APPROPRIATIONS FOR INSTRUCTION AND STUDENT AID PER FULL-TIME EQUIVALENT STUDENT ${ }^{1}$ 1989-90, CHANGE FROM 1988-89 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (1984-85 to 1989-90)

| Institution | Per FTE student |  |  | Ratio of total <br> instructional appropriations to total instructional revenues |  |  | Student aid FTE $\begin{gathered}\text { per } \\ \text { student }\end{gathered}{ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Tuition and fee revenues | Total instructional appropriations | $\begin{gathered} \text { Total } \\ \text { instructional } \\ \text { revenues } \end{gathered}$ | Percentage | Perce year | tage change Five-year average |  |
| State-related |  |  |  |  |  |  |  |
| Lincoln | \$3,150 | \$6,450 | \$9,600 | 67\% | 0\% | 1\% | \$228 |
| Penn State | 4,580 | 2,620 | 7,200 | 36 | 0 | -2 | 292 |
| Pittsburgh | 5,260 | 3,810 | 9,070 | 42 | 0 | -1 | 301 |
| Temple | 4,890 | 4,560 | 9,450 | 48 | 0 | -1 | 265 |
| Total | 4,800 | 3,390 | 8,190 | 41 | 0 | -2 | 288 |
| State-owned |  |  |  |  |  |  |  |
| Bloomsburg | 2,500 | 3,690 | 6,190 | 60 | -2 | -2 | 224 |
| California | 2,360 | 3,450 | 5,810 | 59 | -2 | -3 | 318 |
| Cheyney | 3,010 | 8,750 | 11,760 | 74 | -6 | -1 | 284 |
| Clarion | 2,480 | 3,700 | 6,180 | 60 | 0 | -2 | 257 |
| East Stroudsburg | 2,900 | 3,580 | 6,480 | 55 | -5 | -3 | 149 |
| Edinboro | 2,570 | 3,300 | 5,870 | 56 | -3 | -3 | 247 |
| Indiana | 2,530 | 3,440 | 5,970 | 58 | 0 | -2 | 296 |
| Kutztown | 2,730 | 3,540 | 6,270 | 56 | -3 | -2 | 145 |
| Lock Haven | 2,610 | 4,410 | 7,020 | 63 | -3 | -2 | 241 |
| Mansfield | 2,820 | 4,610 | 7,430 | 62 | -5 | -2 | 250 |
| Millersville | 2,790 | 3,680 | 6,470 | 57 | -2 | -2 | 175 |
| Shippensburg | 2,570 | 3,840 | 6,410 | 60 | 0 | -2 | 176 |
| Slippery Rock | 2,560 | 3,590 | 6,150 | 58 | -2 | -2 | 285 |
| West Chester | 2,790 | 3,580 | 6,370 | 56 | -2 | -2 | 140 |
| Total ${ }^{3}$ | 2,630 | 3,710 | 6,340 | 59 | -2 | -2 | 226 |
| All institutions ${ }^{3}$ | 3,870 | 3,530 | 7,400 | 48 | 0 | -2 | 261 |

1. FTE students include in-State and out-of-State undergraduate and graduate students. Tuition and fees are based on revenues collected by the individual institutions. State appropriations include educational and general appropriations and Tuition Challenge Grants.
2. Includes grants and matching funds. Does not include student loans.
3. Appropriations exclude amount allocated to Board of Governors/Chancellor's Office and System Reserve.

SOURCE: FTE students - reports provided by the individual institutions, 1985 to 1990; tuition and fee revenues - data provided by the individual State-related institutions and the State System of Higher Education, Commonwealth of Pennsylvania, 1985 to 1990; appropriations - Governor's Executive Budget, 1986-87 to 1990-91, and data provided by the State System of Higher Education, Commonwalth of Pennsylvania, 1985 to 1990; student aid - data provided by the Pennsylvania Higher Education Assistance Agency, November 1990.
-.
III. HISTORICAL DATA

Historical Table )
full-time equivalent students by academic level'
1984-85 to 1989-90

| Institution | 1984-85 | 1985-86 | 1986-87 | 1987-88 | 1988-89 | 1989-90 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| State-related |  |  |  |  |  |  |
| Lincoln |  |  |  |  |  |  |
| Total | 1,233 | 1,259 | 1.321 | 1,303 | 1,317 | 1,394 |
| Undergraduate | 1,094 | 1.094 | 1,115 | 1,108 | 1,116 | 1,171 |
| Graduate | 139 | 165 | 206 | 195 | 201 | 223 |
| Penn State |  |  |  |  |  |  |
| Total | 57,280 | 57,624 | 58,598 | 60,861 | 62,095 | 62,839 |
| Undergraduate | 52,376 | 52,438 | 53,266 | 55.177 | 56,271 | 56,641 |
| Graduate | 4,904 | 5,186 | 5.332 | 5,684 | 5,824 | 6,198 |
| Pittsburgh 50, 20.704 |  |  |  |  |  |  |
| Total | 29,269 | 28,867 | 28,704 | 28,792 | 29,271 | 29,737 |
| Undergraduate | 21,458 | 21,292 | 21.189 | 21,302 | 21,814 | 22,107 |
| Graduate | 7,811 | 7.575 | 7,515 | 7,490 | 7,457 | 7,630 |
| Temple |  |  |  |  |  |  |
| Total | 23.995 | 24,734 | 25,152 | 25,646 | 26,453 | 27,005 |
| Undergraduate | 18,139 | 18,832 | 19.486 | 19,933 | 20,614 | 20,898 |
| Graduate | 5,856 | 5,902 | 5,666 | 5.713 | 5,839 | 6,107 |
| State-owned |  |  |  |  |  |  |
| Bloomsburg |  |  |  |  |  |  |
| Total | 6,170 | 6,343 | 6,622 | 6.781 | 6,794 | 7,058 |
| Undergraduate | 5,854 | 5,979 | 6.238 | 6,381 | 6,400 | 6,631 |
| Graćuate | 316 | 364 | 384 | 400 | 394 | 427 |
| California |  |  |  |  |  |  |
| Total | 4,716 | 4,859 | 5,107 | 5,544 | 5,997 | 6,264 |
| Undergraduate | 4,352 | 4,490 | 4.723 | 5,083 | 5,509 | 5,673 |
| Graduate | 364 | 369 | 384 | 461 | 488 | 591 |
| Cheyney |  |  |  |  |  |  |
| Total | 1,760 | 1,374 | 1,414 | 1,520 | 1,241 | 1,433 |
| Undergraduate | 1,682 | 1.308 | 1,325 | 1,402 | 1,081 | 1.204 |
| Graduate | 78 | 66 | 89 | 118 | 160 | 229 |
| Clarion |  |  |  |  |  |  |
| Total | 5,726 | 5,833 | 5,857 | 5.958 | 6,284 | 6,312 |
| Undergraduate | 5,424 | 5,468 | 5,479 | 5,554 | 5,889 | 5,916 |
| Graduate | 302 | 365 | 378 | 404 | 395 | 396 |
| East Stroudsburg |  |  |  |  |  |  |
| Total | 4,267 | 4.273 | 4,410 | 4.728 | 4,824 | 5,250 |
| Undergraduate | 3,929 | 3,878 | 3,895 | 4.183 | 4,344 | 4,634 |
| Graduate | 338 | 395 | 515 | 545 | 480 | 616 |
| Edinboro |  |  |  |  |  |  |
| Total | 5,743 | 5,516 | 5.608 | 6,105 | 6,673 | 7.098 |
| Undergraduate | 5.413 | 5,196 | 5,294 | 5,757 | 6,279 | 6,695 |
| Graduate | 330 | 320 | 314 | 348 | 394 | 403 |
| Indiana |  |  |  |  |  |  |
| Total | 12,880 | 12,730 | 13,026 | 13,173 | 13,165 | 13.698 |
| Undergraduate | 12.092 | 11,901 | 12,151 | 12,281 | 12,357 | 12,748 |
| Graduate | 788 | 829 | 875 | 892 | BOB | 950 |
| Kukztown |  |  |  |  |  |  |
| Total | 5.605 | 5,989 | 6,068 | 6,334 | 6,532 | 6,913 |
| Undergraduate | 5,376 | 5,733 | 5,783 | 6,024 | 6,229 | 6,557 |
| Graduate | 229 | 256 | 285 | 310 | 303 | 356 |
| Lock Haven |  |  |  |  |  |  |
| Total | 2,660 | 2,628 | 2,705 | 2.834 | 2.970 | 3,176 |
| Undergraduate | 2,660 | 2,628 | 2,705 | 2,834 | 2,970 | 3,176 |
| Graduate | na | na | na | na | na | a |
| Mansfield |  |  |  |  |  |  |
| Total | 2,808 | 2,726 | 2,580 | 2.606 | 2,830 | 3,035 |
| Undergraduate | 2,663 | 2,568 | 2,444 | 2,460 | 2,645 | 2,838 |
| Graduate | 145 | 158 | 136 | 146 | 185 | 197 |
| Millersville |  |  |  |  |  |  |
| Total | 6.176 | 6,220 | 6,438 | 6,589 | 6,914 | 7,030 |
| Undergraduate | 5,694 | 5,692 | 5.844 | 5,868 | 6,084 | 6,266 |
| Graduate | 482 | 528 | 594 | 721 | 830 | 764 |
| Shippensburg |  |  |  |  |  |  |
| Total | 5,626 | 5,729 | 5,840 | 5,958 | 5,901 | 5,978 |
| Undergraduate | 5,111 | 5,224 | 5,354 | 5,459 | 5.419 | 5,513 |
| Graduate | 515 | 505 | 486 | 499 | 482 | 465 |
| Slippery Rock |  |  |  |  |  |  |
| Total | 6,165 | 6,196 | 6,323 | 6,586 | 6,947 | 7,124 |
| Undergraduate | 5,868 | 5,921 | 6,038 | 6,306 | 6,598 | 6,648 |
| Graduate | 297 | 275 | 285 | 280 | 349 | 476 |
| West Chester |  |  |  |  |  |  |
| Total | 8,250 | 8.535 | 9,013 | 9.910 | 9,583 | 9,889 |
| Undergraduate | 7,573 | 7,821 | 8,212 | 8,987 | 8,657 | 8,898 |
| Graduate | 677 | 714 | 801 | 923 | 926 | 991 |

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 5 tudent credit hours by 24 . In addition to the master's level, the graduate level for Penn State, Pittsburgh. Temple and Indiana includes first professional (excluding medical) and/or doctor's levels.
a. The graduate program is not included because of its very small size.
na. Not applicable.
SOURCE: Reports provided by the individual institutions, 1985 to 1990.

| 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 |  |  |  |  |  |  |  |  |  |  |  |
| Lincoln |  |  |  |  |  |  |  |  |  |  |  |
| 1984-85 | 27 | 6 | 33 | 3 | na | na | 3 | 36 | 3 | a | 3 |
| 1985-86 | 26 | 7 | 33 | 4 | na | na | 4 | 37 | 2 | ${ }^{1}$ | 2 |
| 1986-87 | 27 | 7 | 34 | 5 | na | na | 5 | 39 | 2 | a | 2 |
| 1987-88 | 27 | 7 | 34 | 5 | na | na | 5 | 39 | 1 | a | , |
| 1988-89 | 27 | 7 | 34 | 5 | na | na | 5 | 39 | , | , | 1 |
| 1989-90 | 28 | 7 | 35 | 5 | na | na | 5 | 40 | 1 | 1 | 2 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 1984-85 | 1.033 | 538 | 1,571 | 54 | na | 63 | 117 | 1,688 | 95 | 18 | 113 |
| 1985-86 | 1,023 | 550 | 1,573 | 62 | na | 62 | 124 | 1,697 | 95 | 19 | 114 |
| 1986-87 | 1.101 | 497 | 1,598 | 64 | na | 64 | 128 | 1,725 | 98 | 19 | 117 |
| 1987-88 | 1.129 | 526 | 1.655 | 71 | na | 65 | 136 | 1,791 | 99 | 21 | 120 |
| 1988-89 | 1,131 | 558 | 1,689 | 77 | na | 62 | 139 | 1,828 | 97 | 21 | 118 |
| 1989-90 | 1,098 | 601 | 1,699 | 83 | na | 66 | 149 | 1,848 | 98 | 22 | 120 |
| Pittsburgh |  |  |  |  |  |  |  |  |  |  |  |
| 1984-85 | 426 | 218 | 644 | 114 | 41 | 33 | 188 | 832 | 71 | 42 | 113 |
| 1985-86 | 420 | 219 | 639 | 109 | 42 | 31 | 182 | 821 | 69 | 39 | 108 |
| 1986-87 | 421 | 214 | 635 | 109 | 42 | 30 | 181 | 816 | 67 | 37 | 104 |
| 1987-88 | 419 | 220 | 639 | 111 | 40 | 28 | 179 | 818 | 66 | 36 | 102 |
| 1988-89 | 436 | 219 | 655 | 113 | 38 | 27 | 178 | 833 | 66 | 34 | 100 |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 1984-85 | 288 | 257 | 545 | 65 | 52 | 23 | 140 | 685 | 41 | 16 | 57 |
| 1985-86 | 302 | 263 | 565 | 66 | 52 | 24 | 142 | 707 | 42 | 16 | 58 |
| 1986-87 | 311 | 273 | 584 | 66 | 47 | 23 | 136 | 720 | 47 | 16 | 63 |
| 1987-88 | 316 | 282 | 598 | 67 | 47 | 23 | 137 | 735 | 50 | 16 | 66 |
| 1988-89 | 329 | 289 | 618 | 69 | 47 | 24 | 140 | 758 | 53 | 16 | 69 |
| 1989-90 | 332 | 295 | 627 | 75 | 47 | 24 | 146 | 713 | 54 | 16 | 70 |
| State-owned |  |  |  |  |  |  |  |  |  |  |  |
| Bloomsburg |  |  |  |  |  |  |  |  |  |  |  |
| 1984-85 | 125 | 51 | 176 | 8 | na | na | 8 | 184 | 13 | 3 | 16 |
| 1985-86 | 127 | 53 | 180 | 9 | na | na | 9 | 189 | 14 | 3 | 17 |
| $1986-87$ $1987-88$ | 132 | 55 | 187 | 9 | na | na | 9 | 196 | 15 | 4 | 19 |
| $1987-88$ <br> $1988-89$ | 135 | 57 | 192 | 10 | na | na | 10 | 202 | 16 | 4 | 20 |
| 1989-90 | 140 | 59 | 199 | 10 | na | na | 10 | 201 209 | 176 | 4 | 20 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 1984-85 | 96 | 34 | 130 | 9 | na | па | 9 | 139 | 9 | 3 | 12 |
| 1985-86 | 91 | 44 | 135 | 9 | na | na | 9 | 144 | 9 | 3 | 12 |
| 1986-87 | 95 | 47 | 142 | 9 | na | na | 9 | 151 | 10 | 3 | 13 |
| 1987-88 | 105 | 48 | 153 | 11 | na | na | 11 | 164 | 11 | 4 | 15 |
| $1988-89$ $1989-90$ | 113 115 | 53 55 | 166 | 12 | na | na | 12 | 178 | 11 | 4 | 15 |
| 1989-90Cheypy |  |  |  |  |  |  |  |  |  |  |  |
| 1984-85 | 39 | 12 | 51 | 2 | na | na | 2 | 53 | 3 | a | 3 |
| 1985-86 | 30 | 9 | 39 | 2 | na | na | 2 | 41 | 2 | a | 3 |
| 1986-87 | 30 | 10 | 40 | 2 | na | na | 2 | 42 | 2 | 1 | 3 |
| 1987-88 | 33 | 9 | 42 | 3 | na | na | 3 | 45 | 2 | 1 | 3 |
| 1988-89 | 25 | 7 | 32 | 4 | na | na | 4 | 36 | 1 | 1 | 2 |
| 1989-90 | 27 | 9 | 36 | 5 | na | na | 5 | 41 | 2 | 2 | 4 |
| Clarion ${ }^{\text {cos }}$ |  |  |  |  |  |  |  |  |  |  |  |
| 1984-85 | 121 | 42 | 163 | 7 | na | na | 7 | 170 | 11 | 2 | 13 |
| 1985-86 | 119 | 45 | 164 | 9 | na | na | 9 | 173 | 10 | 2 | 12 |
| 1986-87 | 121 | 44 | 165 | 9 | na | na | 9 | 174 | 10 | 2 | 12 |
| 1987-88 | 120 | 46 | 166 | 10 | na | na | 10 | 176 | 11 | 2 | 13 |
| 1988-89 | 128 | 49 | 177 | 9 | na | na | 9 | 186 | 12 | 3 | 15 |
| 1989-90 | 128 | 49 | 177 | 10 | na | na | 10 | 187 | 12 | 3 | 15 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 1984-85 | 87 | 31 | 118 | 8 | na | na | 8 | 126 | 11 | 4 | 15 |
| 1985-86 | 85 | 31 | 116 | 9 | na | na | 9 | 125 | 11 | 5 | 16 |
| 1986-87 | 88 | 28 | 116 | 12 | na | na | 12 | 128 | 11 | 7 | 18 |
| 1987-88 | 96 | 30 | 126 | 13 | na | na | 13 | 139 | 12 | 7 | 19 |
| 1988-89 | 99 | 32 | 131 | 12 | na | na | 12 | 143 | 14 | 5 | 19 |
| 1989-90 | 105 | 34 | 139 | 15 | na | na | 15 | 154 | 15 | 7 | 22 |




| 44 | 162 | 8 |
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| 44 | 156 | 8 |
| 47 | 159 | 8 |
| 51 | 173 | 8 |
| 51 | 189 | 9 |
| 53 | 201 | 10 |
| 115 | 363 | 19 |
| 115 | 357 | 20 |
| 120 | 365 | 21 |
| 120 | 369 | 21 |
| 118 | 371 | 19 |
| 120 | 382 | 23 |
| 52 | 162 | 6 |
| 55 | 172 | 6 |
| 55 | 174 | 7 |
| 55 | 180 | 7 |
| 59 | 187 | 7 |
| 64 | 197 | 8 |
| 24 | 80 | na |
| 23 | 79 | $n a$ |
| 24 | 81 | $n \mathbf{n a}$ |
| 25 | 85 | $n \mathbf{n}$ |
| 25 | 89 | $n a$ |
| 27 | 95 | $c$ |
| 21 | 80 | 3 |
| 22 | 77 | 4 |
| 20 | 73 | 3 |
| 20 | 74 | 4 |
| 20 | 80 | 4 |
| 22 | 85 | 5 |
| 37 | 171 | 12 |
| 40 | 171 | 13 |
| 44 | 175 | 14 |
| 45 | 176 | 17 |
| 52 | 183 | 20 |
| 54 | 188 | 18 |
| 41 | 154 | 12 |
| 42 | 157 | 12 |
| 44 | 160 | 12 |
| 45 | 164 | 12 |
| 43 | 162 | 12 |
| 42 | 165 | 11 |
| 41 | 176 | 7 |
| 43 | 177 | 7 |
| 46 | 181 | 7 |
| 48 | 189 | 7 |
| 48 | 198 | 8 |
| 48 | 200 | 11 |
| 63 | 227 | 16 |
| 67 | 235 | 17 |
| 72 | 247 | 19 |
| 79 | 269 | 22 |
| 80 | 259 | 22 |
| 88 | 267 | 24 |


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| na | 8 | 170 | 11 | 2 | 13 |
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| na | 8 | 164 | 10 | 2 | 12 |
| na | 8 | 167 | 11 | 2 | 13 |
| na | 8 | 181 | 12 | 2 | 14 |
| na | 9 | 198 | 12 | 2 | 14 |
| na | 10 | 211 | 12 | 3 | 15 |
| b | 19 | 382 | 33 | 6 | 39 |
| b | 20 | 377 | 32 | 6 | 38 |
| b | 21 | 386 | 33 | 6 | 39 |
| b | 21 | 390 | 31 | 7 | 38 |
| $b$ | 19 | 390 | 34 | 6 | 40 |
| $b$ | 23 | 405 | 34 | 7 | 41 |
| na | 6 | 168 | 9 | 2 | 11 |
| na | 6 | 178 | 9 | 2 | 11 |
| na | 7 | 181 | 10 | 2 | 12 |
| na | 7 | 187 | 9 | 2 | 11 |
| na | 7 | 194 | 10 | 2 | 12 |
| na | 8 | 205 | 11 | 3 | 14 |
| na | na | 80 | 3 | na | 3 |
| na | na | 79 | 3 | na | 3 |
| na | na | 81 | 4 | na | 4 |
| na | na | 85 | 4 | na | 4 |
| na | na | 89 | 5 | na | 5 |
| na | c | 95 | 4 | c | 4 |
| na | 3 | 83 | 5 | 1 | 6 |
| na | 4 | 81 | 6 | 1 | 7 |
| na | 3 | 76 | 6 | 1 | 7 |
| na | 4 | 78 | 5 | 1 | 6 |
| na | 4 | 84 | 5 | 2 | 7 |
| na | 5 | 90 | 5 | 2 | 7 |
| na | 12 | 183 | 18 | 7 | 25 |
| na | 13 | 184 | 17 | 8 | 25 |
| na | 14 | 189 | 17 | 8 | 25 |
| na | 17 | 193 | 18 | 10 | 28 |
| na | 20 | 203 | 17 | 13 | 30 |
| na | 18 | 206 | 17 | 11 | 28 |
| na | 12 | 166 | 10 | 4 | 14 |
| na | 12 | 169 | 10 | 4 | 14 |
| na | 12 | 172 | 11 | 4 | 15 |
| na | 12 | 176 | 11 | 4 | 15 |
| na | 12 | 174 | 11 | 4 | 15 |
| na | 11 | 176 | 11 | 4 | 15 |
| na | 7 | 183 | 11 | 2 | 13 |
| na | 7 | 184 | 11 | 2 | 13 |
| na | 7 | 188 | 13 | 2 | 15 |
| na | 7 | 196 | 14 | 2 | 16 |
| na | 8 | 206 | 15 | 2 | 17 |
| na | 11 | 211 | 15 | 2 | 17 |
| na | 16 | 243 | 17 | 5 | 22 |
| na | 17 | 252 | 18 | 5 | 23 |
| na | 19 | 266 | 18 | 5 | 23 |
| na | 22 | 291 | 20 | 7 | 27 |
| na | 22 | 281 | 20 | 7 | 27 |
| na | 24 | 291 | 21 | 7 | 28 |

[^6]SOURCE: Reports provided by the individual institutions, 1985 to 1990.

Historical table 3
degrees conferred ${ }^{1}$
1984-85 \$0 1989-90

| Institution | 1984-85 | 1985-86 | 1986-87 | 1987-88 | 1988-89 | 1989-90 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| State-related Lincoln |  |  |  |  |  |  |
| Tota 1 | 195 | 226 | 204 | 255 | 241 | 219 |
| Bachelor's | 126 | 157 | 136 | 156 | 166 | 134 |
| Graduate | 69 | 69 | 68 | 99 | 75 | 85 |
| Penn State |  |  |  |  |  |  |
| Total | 9,955 | 9,963 | 9,627 | 9,565 | 9.951 | 10,623 |
| Bachelor's | 8,318 | 8,323 | 8,067 | 7,851 | 8,120 | 8,792 |
| Graduate | 1.637 | 1.640 | 1,560 | 1,714 | 1,831 | 1,831 |
| Pittsburgh |  |  |  |  |  |  |
| Total | 6,118 | 6,219 | 6,292 | 6.269 | 6.223 | 6,417 |
| Bachelor's | 3,524 | 3.689 | 3,734 | 3,738 | 3,757 | 3,973 |
| Graduate | 2.594 | 2,530 | 2.558 | 2,531 | 2,466 | 2,444 |
| Temple |  |  |  |  |  |  |
| Total | 4,802 | 4,837 | 4,820 | 4,972 | 5,324 | 5,295 |
| Bachelor's | 2,982 | 2,986 | 3,051 | 3,176 | 3,437 | 3.473 |
| Graduate | 1,820 | 1,851 | 1,769 | 1,796 | 1,887 | 1,822 |
| State-owned 8100 msburg |  |  |  |  |  |  |
| Total | 1,203 | 1.250 | 1.247 | 1,330 | 1.235 | 1,380 |
| Bacheior's | 1.078 | 1,123 | 1,067 | 1.160 | 1,046 | 1,186 |
| Graduate | 125 | 127 | 180 | 170 | 189 | 194 |
| California |  |  |  |  |  |  |
| Total | 781 | 835 | 870 | 913 | 949 | 1,050 |
| Bachelor's | 643 | 712 | 745 | 767 | 774 | 861 |
| Graduate | 138 | 123 | 125 | 146 | 175 | 189 |
| Cheyney |  |  |  |  |  |  |
| Total | 306 | 261 | 203 | 195 | 144 | 187 |
| Bachelor's | 274 | 241 | 174 | 172 | 107 | 145 |
| Graduate | 32 | 20 | 29 | 23 | 37 | 42 |
| Clarion |  |  |  |  |  |  |
| Total | 1,021 | 1.023 | 1.045 | 1,053 | 3,103 | 1,114 |
| Bacheior's | 864 | 898 | 908 | 894 | 955 | 924 |
| Graduate | 157 | 125 | 137 | 157 | 148 | 190 |
| East Stroudsburg |  |  |  |  |  |  |
| Total | 731 | 843 | 792 | 756 | 820 | 902 |
| Bachelor's | 649 | 717 | 673 | 644 | 697 | 759 |
| Graduate | 82 | 126 | 119 | 112 | 129 | 143 |
| Edinboro |  |  |  |  |  |  |
| Total | 872 | 897 | 914 | 945 | 1,043 | 1,016 |
| Bachelor's | 768 | 750 | 784 | 818 | 895 | 849 |
| Graduate | 104 | 147 | 130 | 127 | 148 | 167 |
| Indiana |  |  |  |  |  |  |
| Total | 2,493 | 2,605 | 2,639 | 2.514 | 2.561 | 2,403 |
| Bachelor's | 2,160 | 2.281 | 2,277 | 2.118 | 2,182 | 1.921 |
| Graduate | 333 | 324 | 362 | 396 | 379 | 482 |
| Kutztown |  |  |  |  |  |  |
| Total | 983 | 995 | 1,075 | 1,008 | 1,125 | 1,193 |
| Bachelor's | 875 | 874 | 963 | 908 | 1,00? | 1,076 |
| Graduate | 108 | 121 | 112 | 100 | 124 | 117 |
| Lock Haven |  |  |  |  |  |  |
| Total | 501 | 467 | 446 | 468 | 462 | 479 |
| Eachelor's | 501 | 467 | 446 | 468 | 462 | 479 |
| Graduate | na | na | na | na | na | a |
| Mansfield 4 de |  |  |  |  |  |  |
| Total | 468 | 486 | 462 | 441 | 494 | 497 |
| Bachelor's | 419 | 404 | 406 | 391 | 435 | 410 |
| Graduate | 49 | 82 | 56 | 50 | 59 | 87 |
| Millersville 10100 |  |  |  |  |  |  |
| Total | 1,169 | 1,146 | 1,158 | 1,250 | 1,164 | 1,317 |
| Bachelor's | 1,050 | 1,024 | 1,032 | 1,126 | 1,045 | 1.170 |
| Graduate | 119 | 122 | 126 | 124 | 119 | 147 |
| Shippensburg , , |  |  |  |  |  |  |
| Total | 1,328 | 1,340 | 1,366 | 1,517 | 1,447 | 1,252 |
| Bachelor's | 979 | 999 | 1.059 | 1,173 | 1.121 | 982 |
| Graduate | 349 | 349 | 307 | 344 | 326 | 270 |
| Slippery Rock |  |  |  |  |  |  |
| Total | 1,043 | 995 | 1,184 | 1,171 | 1,185 | 1,210 |
| Bacheior's | 933 | 876 | 1,066 | 1,069 | 1.045 | 1.080 |
| Graduate | 110 | 119 | 118 | 102 | 140 | 130 |
| West Chester 1,100 |  |  |  |  |  |  |
| Total | 1,190 | 1,417 | 1,436 | 1,460 | 1,573 | 1.695 |
| Bachelor's | 1,009 | 1.183 | 1,211 | 1.251 | 1,319 | 1,427 |
| Graduate | 181 | 234 | 225 | 209 | 254 | 268 |

1. Data for each year represent the summer term precedine the academic year plus the academic year. Graduate include master's at all institutions except Lock Haven, first professional (excluding medical) and doctorls at Pittsburgh and Temple, and doctor's at Penn State and Indiana.
a. The graduate program is not included because of its very small size.
na. Not applicable.
SOURCE: Reports provided by the individual institutions, 1985 to 1990.
average weekly student contact hours of full-time employed faculty by academic level ${ }^{1}$ 1984-85 to 1989-90

| Institution | $\frac{\mathrm{Fu}}{1984-}$ | 11-time emploved faculty head count ${ }^{2}$ |  |  |  |  | Undergraduate <br> average weekly student contact hours |  |  |  |  |  | Graduate <br> average weekly student |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} 1985- \\ 86 \end{gathered}$ | $\begin{gathered} 1986- \\ 87 \end{gathered}$ | $\begin{gathered} 1987- \\ 88 \end{gathered}$ | $\begin{gathered} 1988- \\ 89 \end{gathered}$ | $\begin{gathered} 1989- \\ 90 \end{gathered}$ | $\begin{gathered} \text { 1984- } \\ 85 \end{gathered}$ | $\begin{gathered} \text { He meen } \\ 1985- \\ 86 \end{gathered}$ | $\begin{gathered} 1986- \\ 87 \end{gathered}$ | $\begin{aligned} & 1987- \\ & 88 \end{aligned}$ | $\begin{gathered} 1988-1 \\ 89 \end{gathered}$ | $\begin{gathered} 1989- \\ 90 \end{gathered}$ | $85$ | $86$ | $\begin{gathered} 1986- \\ 87 \end{gathered}$ | $\begin{gathered} 1987- \\ 88 \end{gathered}$ | $\begin{gathered} 988- \\ 89 \end{gathered}$ | $\begin{gathered} 1989 \\ 90 \end{gathered}$ |
| State-related |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lincoln | 72 | 77 | 72 | 68 | 68 | 71 | 10.8 | 9.7 | 10.2 | 9.3 | 9.8 | 10.0 | . 9 | 1.1 | 1.1 | 8 | 1.4 | 8 |
| Penn State | 2,711 | 2,676 | 2,755 | 2,803 | 2,894 | 2,967 | 7.4 | 7.3 | 7.1 | 6.9 | 6.8 | 6.8 | 1.8 | 1.9 | 1.8 | 1.9 | 1.8 | 1.7 |
| Pittsburgh | 1,536 | 1,542 | 1,586 | 1,626 | 1,643 | 1,704 | 5.1 | 5.0 | 4.8 | 4.7 | 4.4 | 4.5 | 4.0 | 4.0 | 3.8 | 3.8 | 3.6 | 3.6 |
| Temple | 1,181 | 1,161 | 1,122 | 1,125 | 1,149 | 1,177 | 6.3 | 6.3 | 5.9 | 5.7 | 5.2 | 5.0 | 3.4 | 3.4 | 3.1 | 3.2 | 3.1 | 3.2 |
| Total | 5,500 | 5,456 | 5,535 | 5,622 | 5,754 | 5,919 | 6.5 | 6.4 | 6.2 | 6.1 | 5.8 | 5.8 | 2.8 | 2.8 | 2.6 | 2.7 | 2.6 | 2.5 |
| State-owned |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bloomsburg | 326 | 326 | 328 | 338 | 338 | 349 | 10.8 | 10.9 | 10.7 | 10.4 | 11.4 | 11.1 | . 7 | . 6 | . 7 | . 8 | . 9 | . 7 |
| California | 257 | 266 | 267 | 259 | 279 | 293 | 12.1 | 9.4 | 10.4 | 10.7 | 10.7 | 9.7 | 1.0 | . 8 | 1.0 | 1.0 | 1.3 | 1.1 |
| Cheyney | 145 | 114 | 146 | 118 | 99 | 112 | 10.5 | 9.8 | 10.2 | 10.8 | 11.0 | 11.4 | . 4 | . 4 | . 7 | 1.0 | . 6 | . 9 |
| Clarion | 305 | 324 | 323 | 326 | 336 | 336 | 10.6 | 10.5 | 10.5 | 10.4 | 10.4 | 10.3 | . 6 | . 5 | . 6 | . 6 | . 7 | . 7 |
| East Stroudsburg | 231 | 223 | 239 | 241 | 243 | 251 | 10.4 | 10.2 | 10.4 | 10.1 | 10.0 | 10.6 | . 8 | . 8 | . 8 | . 8 | . 9 | . 8 |
| Edinboro | 322 | 311 | 301 | 303 | 326 | 371 | 11.8 | 11.8 | 11.9 | 12.4 | 12.9 | 12.3 | . 9 | . 8 | . 7 | . 7 | . 6 | . 7 |
| Indiana | 659 | 661 | 676 | 691 | 689 | 680 | 11.0 | 11.0 | 10.7 | 10.6 | 10.2 | 10.5 | 1.2 | 1.1 | 1.1 | 1.2 | 1.1 | 1.1 |
| Kutztown | 298 | 309 | 321 | 305 | 347 | 347 | 11.9 | 11.7 | 11.8 | 11.7 | 12.6 | 11.7 | . 4 | . 4 | . 4 | . 4 | . 5 | . 5 |
| Lock Haven | 166 | 166 | 169 | 172 | 171 | 182 | 11.6 | 11.4 | 11.5 | 11.2 | 12.1 | 11.5 | na | na | na | na | na | ${ }^{\text {a }}$ |
| Mansfield | 166 | 182 | 172 | 173 | 166 | 170 | 11.8 | 9.6 | 10.0 | 9.6 | 10.3 | 10.5 | 1.1 | . 6 | . 4 | . 3 | . 6 | . 6 |
| Millersville | 292 | 294 | 297 | 314 | 308 | 313 | 10.9 | 10.9 | 10.8 | 11.1 | 10.8 | 11.5 | . 5 | . 5 | . 5 | . 6 | . 6 | . 7 |
| Shippensburg | 292 | 291 | 291 | 317 | 310 | 305 | 9.6 | 9.5 | 9.5 | 9.7 | 9.8 | 9.5 | . 9 | . 9 | 1.0 | 1.0 | . 9 | . 9 |
| Slippery Rock | 331 | 334 | 333 | 347 | 350 | 361 | 11.4 | 11.2 | 11.4 | 11.2 | 11.6 | 11.5 | . 5 | . 6 | . 5 | . 6 | . 6 | . 7 |
| West Chester | 467 | 474 | 431 | 414 | 445 | 440 | 10.6 | 10.7 | 10.4 | 10.4 | 10.7 | 10.2 | 1.2 | 1.1 | 1.2 | 1.3 | 1.4 | 1.7 |
| Total | 4,257 | 4,275 | 4,294 | 4,318 | 4,407 | 4,510 | 11.0 | 10.7 | 10.8 | 10.8 | 11.0 | 10.8 | . 8 | . 7 | . 8 | . 8 | . 8 | . 9 |
| All institutions | 9,757 | 9,731 | 9,829 | 9,940 | 10,161 | 10,429 | 8.5 | 8.3 | 8.2 | 8.0 | 8.0 | 7.9 | 1.9 | 1.9 | 1.8 | 1.9 | 1.8 | 1.8 |

[^7]averagr. instrictional salartes of full time equivalent instructional faculty by rank 1984-85 to 1989-90
(Dollars in thousands)

| Institution | Number of FTE instructional faculty | Average instructional salaries |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\underset{\text { faculty }}{\text { All }}$ | Professor | Associate professor | Assistant professor | Instructor | No rank ${ }^{2}$ |
| State-related Lincoln |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 1984-85 | 103 | \$19.3 | \$27.0 | \$23.1 | \$17.7 | \$15.5 | $\$ 17.7$ |
| 1985-86 | 95 | 21.3 | 28.7 | 24.9 | 20.4 | 18.3 | 14.5 |
| 1986-87 | 100 | 20.7 | 27.5 | 26.2 | 20.7 | 17.8 | 13.8 |
| 1987-88 | 93 | 21.4 | 29.3 | 25.4 | 21.1 | 19.6 | 15.9 |
| 1988-89 | 92 | 23.1 | 34.3 | 29.0 | 23.2 | 19.6 | 15.9 |
| 1989-90 | 101 | 24.5 | 36.0 | 29.7 | 23.4 | 16.4 | 17.4 |
| Penn State |  |  |  |  |  |  |  |
| 1984-85 | 3.136 | 26.0 | 41.6 | 31.5 | 24.9 | 18.0 | 19.2 |
| 1985-86 | 3,146 | 27.2 | 44.3 | 33.7 | 26.5 | 18.2 | 19.7 |
| 1986-87 | 3,217 | 29.5 | 47.3 | 35.3 | 28.5 | 20.5 | 21.9 |
| 1987-88 | 3,282 | 31.2 | 50.6 | 38.0 | 30.5 | 21.0 | 22.5 |
| 1988-89 | 3.356 | 33.3 | 54.5 | 40.3 | 32.5 | 22.6 | 24.0 |
| 1989-90 | 3,392 | 36.0 | 59.0 | 42.9 | 35.2 | 24.1 | 25.6 |
| $\begin{array}{cccccc}\text { Pittsburgh } \\ \begin{array}{c}\text { 984-85 }\end{array} & 1.815\end{array}$ |  |  |  |  |  |  |  |
| 1984-85 $1985-86$ | 1,815 | 26.8 28.0 | 40.3 41.8 | 28.4 30.0 | 22.7 23.9 | 14.7 15.6 | 23.2 23.6 |
| 1986-87 | 1,794 | 29.3 | 44.4 | 31.6 | 25.2 | 16.0 | 23.6 |
| 1987-88 | 1.790 | 32.0 | 48.1 | 34.8 | 26.9 | 17.5 | 25.3 |
| 1988-89 | 1.731 | 33.7 | 51.9 | 37.2 | 28.9 | 18.1 | 25.8 |
| 1983-90 | 1.748 | 35.9 | 55.8 | 39.7 | 31.4 | 19.7 | 27.1 |
| Trmple |  |  |  |  |  |  |  |
| 1985-86 | 1,563 | 27.2 | 39.0 | 31.0 | 25.0 | 14.1 | 14.5 |
| 1986-87 | 1.527 | 27.7 | 39.4 | 30.6 | 25.6 | 15.6 | 18.4 |
| 1987-88 | 1.570 | 29.5 | 43.7 | 34.2 | 27.9 | 16.0 | 17.1 |
| 1988-89 | 1,553 | 30.4 | 45.0 | 35.7 | 30.6 | 17.6 | 17.6 |
| 1989-90 | 1,559 | 31.9 | 48.1 | 37.5 | 31.2 | 17.9 | 18.3 |
| State-owned |  |  |  |  |  |  |  |
| Bloomsburg |  |  |  |  |  |  |  |
| 1984-85 | 335 | 28.2 | 34.9 | 29.1 | 22.8 | 19.2 | na |
| 1985-86 | 339 | 30.1 | 37.7 | 30.9 | 25.1 | 20.1 | na |
| 1986-87 | 344 | 31.3 | 39.8 | 32.2 | 26.6 | 21.4 | na |
| 1987-88 | 361 | 32.8 | 42.2 | 34.4 | 27.6 | 22.4 | na |
| 1988-89 | 357 | 35.3 | 44.9 | 37.2 | 29.1 | 23.6 | na |
| 1989-90 | 371 | 37.7 | 47.8 | 38.9 | 31.2 | 24.8 | na |
| California 245 |  |  |  |  |  |  |  |
| 1984-85 | 245 | 31.3 | 36.3 | 30.4 | 24.9 | 18.4 | 35.5 |
| 1985-86 | 260 | 31.7 | 37.2 | 30.9 | 25.2 | 17.7 | 29.7 |
| 1986-87 | 257 | 32.9 | 39.7 | 32.8 | 25.6 | 18.1 | 16.6 |
| 1987-88 | 280 | 36.1 | 44.9 | 37.6 | 29.1 | 14.6 | 27.7 |
| 1988-89 | 290 | 35.7 | 44.3 | 37.5 | 29.7 | 22.1 | 28.0 |
| 1989-90 | 309 | 39.2 | 49.4 | 40.6 | 32.1 | 22.3 | 33.2 |
| Cheyney1984-85 |  |  |  |  |  |  |  |
| 1984-85 | 144 | 30.2 | 35.1 | 29.2 | 26.4 | 21.0 | 34.1 |
| 1985-86 | 136 | 34.7 | 40.7 | 33.7 | 26.3 | 23.8 | 24.6 |
| 1986-87 | 119 | 36.2 | 42.8 | 34.7 | 27.8 | 25.5 | 17.1 |
| 1987-88 | 112 | 37.7 | 43.8 | 37.8 | 29.1 | 23.3 | 15.4 |
| 1988-89 | 92 | 41.0 | 51.7 | 37.3 | 34.9 | 25.1 | 39.0 |
| 1989-90 | 99 | 43.9 | 51.0 | 40.7 | 37.2 | 33.4 | 79.7 |
| Clarion 294 |  |  |  |  |  |  |  |
| 1984-85 | 294 | 28.6 | 34.8 | 29.3 | 23.5 | 19.5 | 20.1 |
| 1985-86 | 305 | 29.4 | 35.8 | 30.5 | 24.2 | 18.9 | 24.4 |
| 1986-87 | 303 | 32.0 | 39.9 | 32.7 | 26.2 | 21.5 | 19.6 |
| 1987-88 | 302 | 34.7 | 42.3 | 35.1 | 29.1 | 23.1 | 23.4 |
| 1988-89 | 336 | 35.6 | 45.3 | 36.5 | 29.6 | 22.6 | 8.7 |
| 1989-90 | 345 | 38.3 | 49.5 | 40.2 | 31.8 | 24.3 | 28.4 |
| East Stroudsburg 247 28.1 33.1 |  |  |  |  |  |  |  |
| 1985-86 | 246 | 29.3 | 34.6 | 28.3 | 24.1 | 15.2 | na |
| 1986-87 | 251 | 30.9 | 37.3 | 30.3 | 23.3 | 20.4 | 3.4 |
| 1987-88 | 261 | 32.9 | 40.3 | 32.1 | 24.6 | 20.6 | na |
| 1988-89 | 265 282 | 35.2 | 42.5 | 34.0 | 28.0 | 24.8 | 14.5 |
| 1989-90 | 282 | 37.0 | 45.0 | 36.1 | 30.5 | 18.6 | 46.1 |


| trindoro |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 198485 | 322 | 30.8 | 35.4 | 29.7 | 24.7 | 18.7 | 29.9 |
| 1985-86 | 319 | 32.1 | 36.9 | 30.7 | 25.6 | 20.8 | 31.4 |
| 1986-87 | 318 | 32.5 | 37.1 | 31.4 | 25.9 | 18.1 | 27.3 |
| 1987-88 | 322 | 34.8 | 40.6 | 33.5 | 27.5 | 23.2 | 36.1 |
| 1988-89 | 361 | 36.9 | 45.4 | 35.9 | 28.5 | 22.2 | 35.4 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 1984-85 | 679 | 27.7 | 33.8 | 28.4 | 22.9 | 16.6 | 21.1 |
| 1985-86 | 664 | 29.3 | 35.9 | 29.8 | 24.7 | 17.2 | 28.1 |
| 1986-87 | 681 | 31.3 | 38.9 | 32.6 | 26.4 | 18.4 | 19.5 |
| 1987-88 | 691 | 33.2 | 41.5 | 34.1 | 27.8 | 20.3 | 21.8 |
| 1988-89 | 673 | 36.1 | 45.3 | 36.5 | 29.7 | 23.2 | 17.6 |
| 1989-90 | 681 | 39.0 | 47.7 | 39.1 | 32.4 | 23.8 | 26.4 |
|  |  |  |  |  |  |  |  |
| 1984-85 | 306 | 29.5 | 35.9 | 29.3 | 24.0 | 18.9 | 31.5 |
| 1985-86 | 317 | 31.2 | 37.9 | 30.7 | 24.9 | 20.0 | 43.4 |
| 1986-87 | 329 | 32.8 | 40.9 | 33.0 | 26.9 | 20.9 | 33.6 |
| 1987-88 | 334 | 35.7 | 44.5 | 35.9 | 29.7 | 24.1 | 35.0 |
| 1988-89 | 338 | 37.9 | 46.7 | 38.8 | 31.4 | 24.6 | 41.5 |
| 1989-90 | 354 | 39.8 | 48.9 | 40.5 | 33.2 | 25.8 | 58.0 |
| Lock Haven 38.0 |  |  |  |  |  |  |  |
| 1984-85 | 151 | 31.7 | 36.9 | 30.4 | 24.4 | 21.5 | 30.5 |
| 1985-86 | 151 | 33.0 | 39.1 | 31.4 | 25.7 | 20.6 | 19.6 |
| 1986-87 | 156 | 34.7 | 42.2 | 33.8 | 26.5 | 22.1 | 36.0 |
| 1987-88 | 158 | 37.4 | 45.2 | 36.4 | 28.9 | 23.8 | 20.2 |
| 1988-89 | 159 | 39.1 | 48.9 | 39.5 | 30.5 | 24.3 | 18.7 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 1984-85 | 168 | 28.5 | 36.8 | 29.2 | 23.1 | 17.8 | na |
| 1985-86 | 165 | 29.7 | 37.8 | 30.7 | 24.2 | 17.1 | na |
| 1986-87 | 156 | 32.1 | 40.2 | 32.5 | 26.3 | 18.4 | na |
| 1987-88 | 149 | 35.3 | 44.4 | 36.1 | 29.5 | 18.8 | na |
| 1988-89 | 162 | 37.2 | 46.8 | 37.4 | 30.9 | 22.3 | na |
| 1989-90 | 170 | 38.9 | 48.5 | 40.6 | 33.4 | 24.2 | na |
| Millersville ${ }^{\text {a }}$ |  |  |  |  |  |  |  |
| 1984-85 | 327 | 28.0 | 34.0 | 27.9 | 23.2 | 19.0 | 47.6 |
| 1985-86 | 330 | 29.1 | 35.5 | 29.7 | 23.8 | 18.5 | 24.0 |
| 1986-87 | 349 | 30.6 | 37.5 | 31.1 | 25.1 | 18.2 | 34.9 |
| 1987-88 | 349 | 34.2 | 42.5 | 35.6 | 27.5 | 19.4 | na |
| 1988-89 | 348 | 36.2 | 44.8 | 37.6 | 29.6 | 20.5 | na |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 1984-85 | 290 | 30.2 | 36.0 | 29.0 | 23.9 | 19.5 | 34.2 |
| 1985-86 | 292 | 32.2 | 38.3 | 31.1 | 25.4 | 19.6 | 42.1 |
| 1986-87 | 297 | 33.3 | 39.6 | 32.4 | 26.3 | 20.6 | na |
| 1987-8B | 300 | 35.9 | 42.7 | 34.4 | 28.7 | 23.5 | na |
| 1988-89 | 307 | 38.3 | 44.8 | 36.0 | 30.7 | 24.8 | na |
| 1989-90 | 308 | 41.8 | 48.7 | 39.1 | 32.8 | 26.1 | na |
| Stippery Rock 3 , |  |  |  |  |  |  |  |
| 1984-85 | 324 | 29.5 | 35.3 | 29.4 | 23.7 | 19.0 | 22.3 |
| 1985-86 | 326 | 30.4 | 36.9 | 29.5 | 24.4 | 22.6 | 29.0 |
| 1986-87 | 330 | 32.5 | 40.0 | 32.6 | 26.0 | 21.3 | 43.8 |
| 1987-88 | 343 | 35.2 | 43.3 | 35.1 | 28.4 | 23.8 | 26.7 |
| 1988-89 | 373 | 37.7 | 45.6 | 39.4 | 30.1 | 26.9 | na |
| West Chester 49.6 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| 1984-85 | 465 | 28.8 | 36.3 | 29.7 | 23.6 | 17.5 | 36.5 |
| 1985-86 | 477 | 30.0 | 38.3 | 31.2 | 24.7 | 18.3 | 31.8 |
| 1986-87 | 471 | 31.5 | 38.6 | 32.8 | 26.2 | 21.2 | 49.2 |
| 1987-88 | 493 | 33.1 | 41.8 | 35.1 | 27.5 | 20.2 | 33.3 |
| 1988-89 | 521 | 36.5 | 47.1 | 38.5 | 30.3 | 21.8 | 52.0 |
| 1989-90 | 556 | 38.6 | 50.2 | 41.6 | 32.0 | 22.8 | 63.5 |

1. Average instructional salaries are calculated by dividing the total instructional salaries paid to
all staf members in the respective rank categories by their total full-time equivalency in the all staff members in the respective rank categories by their total full-time equivalency in the instructional function. One fult-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. by all nonranked personnel, including lecturers, administrators, librarians, research staff and graduate assistants and volunteers
na. Not applicable
SOURCE: Reports provided by the individual institutions, 1985 to 1990.

Historical Table 6
average instructional faculty salary cost per full-time equivalent student by academic division and level'
1984-85 to 1989-90

| Institution | Lower division |  |  |  |  |  | Upper division |  |  |  |  |  | Total undergraduate |  |  |  |  |  | Master's |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1984- \\ 85 \end{gathered}$ | $\begin{gathered} 1985- \\ 86 \end{gathered}$ | $\begin{gathered} 1986-1 \\ 87 \end{gathered}$ | $\begin{aligned} & 1987- \\ & 88 \end{aligned}$ | $\begin{gathered} 1988- \\ 89 \end{gathered}$ | $\begin{gathered} 1989- \\ 90 \end{gathered}$ | $\begin{aligned} & 1984- \\ & 85 \end{aligned}$ | $\begin{gathered} 1985- \\ 86 \end{gathered}$ | $\begin{gathered} 1986- \\ 87 \end{gathered}$ | ${ }_{88}^{1987-}$ | $\begin{gathered} 1988- \\ 89 \end{gathered}$ | $\begin{gathered} 1989- \\ 90 \end{gathered}$ | $\begin{gathered} 1984- \\ 85 \end{gathered}$ | $\begin{gathered} 1985- \\ 86 \end{gathered}$ | ${ }_{87}{ }^{\text {1986- }}$ | 88887- | $\begin{gathered} 1988- \\ 89 \end{gathered}$ | $\begin{gathered} 1989- \\ 90 \end{gathered}$ | $\begin{gathered} 1984- \\ 85 \end{gathered}$ | $\begin{gathered} 1985- \\ 86 \end{gathered}$ | $\begin{aligned} & \text { Tase } \\ & 878 \\ & 87 \end{aligned}$ | $\begin{gathered} 1987- \\ 88 \end{gathered}$ | $\begin{gathered} 1988- \\ 89 \end{gathered}$ | $\begin{gathered} 1989-9 \\ 90 \end{gathered}$ |
| State-related |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lincoln | \$1,323 | \$1,359 | \$1.532 | \$1,266 | \$1,360 | \$1,554 | \$2.761 | \$2,519 | \$2,839 | \$2,497 | \$2.609 | \$2,844 | \$1,591 | \$1,589 | \$1,794 | \$1,513 | \$1,612 | \$1,809 | \$1,720 | \$1,720 | \$1,815 | \$1.614 | \$1.571 | 11.579 |
| Penn State | 921 | 962 | 1,010 | 1.013 | 1.079 | 1,152 | 1.424 | 1.486 | 1,739 | 1,816 | 1,920 | 2,047 | 1,094 | 1.145 | 1.237 | 1,268 | 1,357 | 1,468 | 2.359 | 2,379 | 2,584 | 2,808 | 3,077 | 3.167 |
| Pittsburgh | 845 | 943 | -990 | 1.064 | 1,044 | 1,126 | 1,747 | 1.864 | 2.050 | 1,986 | 2,025 | 2,072 | 1,151 | 1.258 | 1,348 | 1.382 | 1,372 | 1,438 | 3,107 | 3,174 2,247 | 3.241 2.328 | 3.608 | 3.759 2.657 | 3.995 2.712 |
| Temple | 1.097 | 1,185 | 1,126 | 1,216 | 1,180 | 1.168 | 1,575 | 1,663 | 1,593 | 1,692 | 1,638 | 1,684 | 1,322 | 1,397 | 1.345 | 1,441 | 1,394 | 1,411 | 2,278 | 2,247 | 2.328 | 2.679 | 2,657 | 2.712 |
| Total | 938 | 998 | 1,033 | 1,062 | 1.092 | 1,154 | 1,539 | 1,617 | 1,773 | 1,823 | 1,870 | 1.961 | 1,157 | 1,227 | 1,290 | 1,331 | 1,371 | 1,454 | 2,688 | 2,693 | 2.793 | 3.102 | 3,232 | 3,352 |
| State-owned |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bloomsburg | 1,274 | 1,319 | 1.322 | 1,439 | 1,508 | 1,585 | 2,060 | 2,215 | 2,296 | 2,356 | 2,621 | 2,852 | 1,500 | 1,583 | 1,607 | 1,711 | 1.831 | 1,958 | 2,119 | 2.074 | 1,997 | 2,350 | 2,191 | 2,317 |
| California | 1,246 | 1,212 | 1,301 | 1,401 | 1,345 | 1,494 | 2.271 | 2.230 | 2,049 | 2.392 | 2,176 | 2,402 | 1.515 | 1,583 | 1.547 | 1,710 | 1,610 | 1,790 | 2,957 | 3,088 | 2,958 | 3.072 | 3.044 | 3,290 |
| Cheyney | 2.002 | 2,797 | 2,494 | 2,268 | 2,497 | 2.486 | 3.552 | 4.826 | 4,246 | 4,313 | 4,197 | 4,091 | 2,369 | 3,274 | 2,927 | 2,707 | 2,862 | 2,875 | 4.520 | 6,769 | 4,579 | 3.680 | 4. 297 | 3,787 |
| Clarion | 1,174 1,356 | 1,232 | 1,360 1,438 | 1.363 1.491 | 1,450 | 1,571 | 2,021 | 2.181 2.657 | 2,397 2,863 | 2.573 3.034 | 2,896 3,044 | 3,273 3,209 | 1,393 | 1.491 1.678 | 1,635 1,784 | 1,699 1,859 | 1,848 | 2,041 2,013 | 2,828 1,791 | 2,243 1.786 | 1,911 1.555 | 2.514 1.494 | 2,748 2,271 | 2,881 1,776 |
| Edinboro | 1.438 | 1.593 | 1.558 | 1,555 | 1.620 | 1,734 | 2.153 | 2,352 | 2,276 | 2,285 | 2,694 | 2,924 | 1,631 | 1,805 | 1,769 | 1,769 | 1,909 | 2,047 | 3,381 | 2,704 | 3,052 | 2,971 | 3,385 | 1,776 3,802 |
| Indiana | 1.035 | 1,084 | 1, 149 | 1.188 | 1.303 | 1,361 | 1,952 | 1,997 | 2,163 | 2,327 | 2,549 | 2,716 | 1,324 | 1,378 | 1.482 | 1.558 | 1,700 | 1,787 | 3,569 | 3,664 | 3,772 | 4,278 | 4.084 | 3,971 |
| Kutztown | 1,182 | 1,169 | 1,240 | 1,305 | 1.415 | 1.476 | 2,444 | 2,604 | 2,880 | 3,096 | 3.041 | 3,093 | 1,587 | 1,624 | 1,756 | 1.853 | 1,929 | 2,001 | 2,234 | 2,375 | 2,272 | 2,476 | 2,640 | 2,793 |
| Lock Haven | 1,446 | 1,580 | 1.567 | 1.641 | 1.561 | 1.639 | 2.608 | 2,653 | 3,022 | 3,167 | 3,498 | 3,202 | 1,795 | 1,895 | 1.997 | 2,084 | 2,099 | 2,082 | na | na | na | na | na |  |
| Mansfield | 1.184 | 1.226 | 1.262 | 1.271 | 1.390 | 1.488 | 2,887 | 2,963 | 3,492 | 3,683 | 4,157 | 3,974 | 1,624 | 1,715 | 1,884 | 1,919 | 2,082 | 2.126 | 3,115 | 3,186 | 2,921 | 3,722 | 2,844 | 2,907 |
| Millersville | 1,178 | 1,215 | 1,287 | 1,406 | 1,432 | 1.599 | 2,370 | 2,493 | 2,600 | 2.795 | 2,749 | 2,779 | 1,433 | 1,517 | 1,616 | 1,764 | 1,804 | 1,941 | 2,017 | 1,833 | 2,054 | 2,182 | 1,956 | 2,026 |
| Shippensburg | 1,321 | 1,370 | 1,413 | 1,540 | 1,602 | 1.737 | 1,917 | 2,077 | 2,144 | 2,194 | 2.560 | 2,852 | 1,479 | 1,558 | 1.615 | 1,718 | 1,857 | 2,022 | 2,360 | 2.542 | 2,607 | 2.784 | 3,507 | 3,693 |
| Slippery Rock West Chester. | 1,222 1.266 | 1,271 1,288 | 1,349 1,324 | 1,431 | 1,561 | 1,710 | 2,366 2,274 | 2,376 | 2,540 | 2,735 | 3,166 | 3,478 2,594 | 1.491 1.546 | 1,540 1.587 | 1.651 1.556 | 1,762 | 1.949 | 2.134 | 2.736 | 2.922 | 2.720 | 3.444 | 3.423 | 2,920 |
| West Chester. | 1,266 | 1,288 | 1.324 | 1,328 | 1,612 | 1,783 | 2,274 | 2,333 | 2,122 | 2,061 | 2,461 | 2,594 | 1,546 | 1.587 | 1,556 | 1.544 | 1,874 | 2,049 | 2,513 | 2,688 | 2.548 | 2,630 | 3,001 | 3,262 |
| Total | 1,248 | 1,304 | 1,349 | 1,405 | 1,495 | 1,606 | 2,234 | 2,351 | 2,434 | 2.559 | 2,771 | 2.934 | 1,519 | 1.603 | 1,662 | 1,736 | 1,860 | 1,990 | 2,705 | 2,693 | 2.614 | 2,834 | 2,980 | 3,03 |
| All institutions | 1,085 | 1,142 | 1,179 | 1,223 | 1.283 | 1,373 | 1,799 | 1,895 | 2,036 | 2,114 | 2,223 | 2,343 | 1,317 | 1,393 | 1,455 | 1,512 | 1,589 | 1.697 | 2,694 | 2,693 | 2,730 | 3,005 | 3,141 | 3.232 |


 ull-time equivalent students at that level. In the case of individual instruction, one course (assigned) credit is attributed to every three student credit hours generated.
na. Not applicable.
SOURCE: Reports provided by the individual institutions, 1985 to 1990.

Historical Table 6A
average instructional faculty salary cost per student credit hour by academic division and level 1984-85 to 1989-90


 credit-hour production at that level. In the case of individual instruction, one course (assigned) credit is attributed to every three student credit hours generated
a. The master's program is not included because of its very small size.
na. Not applicable
SOURCE: Reports provided by the individual institutions, 1985 to 1990.

Historical Table 7
average class sizes in classroom instruction by academic division and level' 1984-85 to 1989-90

| Institution | Lower division |  |  |  |  |  | Upper division |  |  |  |  |  | Total undergraduate |  |  |  |  |  | Master's |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 1984- \\ 85 \end{gathered}$ | $\begin{gathered} 1985- \\ 86 \end{gathered}$ | $\begin{gathered} 1986- \\ 87 \end{gathered}$ | $\begin{gathered} 1987- \\ 88 \end{gathered}$ | $\begin{gathered} 1988- \\ 89 \end{gathered}$ | $\begin{gathered} 1989- \\ 90 \end{gathered}$ | $\begin{gathered} 1984- \\ 85 \end{gathered}$ | $\begin{gathered} 1985- \\ 85 \end{gathered}$ | $\begin{gathered} 1986- \\ 87 \end{gathered}$ | $\begin{array}{r} 1987- \\ 88 \end{array}$ | $\begin{gathered} 1988- \\ 89 \end{gathered}$ | $\begin{gathered} 1989 . \\ 90 \end{gathered}$ | $\begin{gathered} 1984- \\ 85 \end{gathered}$ | $\begin{gathered} 1985- \\ 86 \end{gathered}$ | $\begin{gathered} 1986- \\ 87 \end{gathered}$ | $\begin{gathered} 1987- \\ 88 \end{gathered}$ | $\begin{gathered} 1988- \\ 89 \end{gathered}$ | $\begin{gathered} 1989- \\ 90 \end{gathered}$ | $\begin{gathered} 1984- \\ 85 \end{gathered}$ | $\begin{gathered} 1985- \\ 86 \end{gathered}$ | $\begin{gathered} 1986- \\ 87 \end{gathered}$ | $\begin{gathered} 1987- \\ 88 \end{gathered}$ | $\begin{gathered} 1988- \\ 89 \end{gathered}$ | $\begin{gathered} 1989 \\ 90 \end{gathered}$ |
| State-related |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lincoln | 18 | 13 | 19 | 21 | 21 | 21 | 9 | 11 | 11 | 11 | 12 | 13 | 15 | 16 | 16 | 18 | 18 | 19 | 11 | 12 | 12 | 13 | 14 | 15 |
| Penn State | 29 | 30 | 31 | 31 | 31 | 31 | 30 | 30 | 28 | 28 | 29 | 28 | 29 | 30 | 30 | 30 | 30 | 30 | 12 | 15 | 14 | 15 | 15 | 15 |
| Pittsturgh | 29 | 29 | 29 | 32 | 33 | 32 | 23 | 23 | 23 | 27 | 27 | 26 | 27 | 27 | 27 | 30 | 31 | 30 | 16 | 16 | 16 | 18 | 18 | 18 |
| Temple | 25 | 25 | 26 | 25 | 26 | 27 | 21 | 21 | 22 | 23 | 24 | 25 | 23 | 23 | 24 | 24 | 25 | 26 | 13 | 13 | 13 | 13 | 13 | 14 |
| Total | 28 | 29 | 29 | 30 | 30 | 30 | 25 | 26 | 25 | 26 | 27 | 26 | 27 | 27 | 28 | 28 | 29 | 29 | 14 | 14 | 15 | 15 | 15 | 15 |
| State-owned |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bloomsbura | 26 | 23 | 24 | 23 | 25 | 25 | 19 | 16 | 16 | 16 | 17 | 16 | 23 | 20 | 21 | 21 | 22 | 21 | 13 | 13 | 14 | 12 | 14 | 13 |
| California | 28 | 29 | 30 | 29 | 31 | 30 | 16 | 17 | 18 | 18 | 19 | 19 | 24 | 24 | 25 | 25 | 26 | 25 | 9 | 9 | 10 | 10 | 12 | 11 |
| Cheyney | 17 | 16 | 17 | 20 | 19 | 20 | 10 | 10 | 9 | 10 | 11 | 11 | 15 | 14 | 14 | 16 | 17 | 17 | 8 | 7 | 6 | 8 | 13 | 14 |
| Clarion | 33 | 33 | 33 | 35 | 36 | 36 | 20 | 19 | 17 | 17 | 17 | 16 | 29 | 27 | 26 | 27 | 28 | 27 | 12 | 14 | 16 | 13 | 13 | 13 |
| East Stroudsburg | 28 | 28 | 28 | 28 | 28 | 29 | 17 | 16 | 15 | 16 | 16 | 16 | 24 | 24 | 23 | 24 | 24 | 24 | 14 | 15 | 17 | 19 | 16 | 20 |
| Edinboro | 25 | 24 | 25 | 27 | 27 | 26 | 16 | 17 | 17 | 18 | 16 | 15 | 22 | 22 | 22 | 24 | 23 | 22 | 8 | 11 | 9 | 10 | 9 | 9 |
| Indiana | 30 | 30 | 31 | 31 | 31 | 31 | 17 | 17 | 18 | 17 | 17 | 17 | 24 | 24 | 25 | 25 | 25 | 25 | 7 | 7 | 7 | 7 | 8 | 9 |
| Kutz town | 27 | 29 | 28 | 30 | 29 | 30 | 13 | 14 | 14 | 14 | 16 | 16 | 21 | 22 | 22 | 23 | 23 | 24 | 10 | 11 | 12 | 13 | 14 | 13 |
| Lock Haven | 27 | 27. | 27 | 28 | 28 | 28 | 18 | 18 | 16 | 17 | 12 | 13 | 23 | 23 | 23 | 24 | 21 | 21 | na | na | na | na | na |  |
| Mansfield | 25 | 26 | 26 | 28 | 28 | 29 | 10 | 10 | 8 | 8 | 8 | 9 | 18 | 18 | 16 | 16 | 17 | 18 | 7 | 7 | 7 | 8 | 8 | 9 |
| Millersville | 26 | 26 | 26 | 25 | 25 | 24 | 14 | 13 | 13 | 13 | 13 | 13 | 22 | 21 | 21 | 20 | 20 | 19 | 12 | 13 | 11 | 12 | 13 | 12 |
| Shippensturg | 28 | 28 | 28 | 28 | 32 | 29 | 21 | 21 | 21 | 21 | 23 | 19 | 25 | 26 | 26 | 26 | 29 | 25 | 14 | 14 | 12 | 12 | 13 | 10 |
| Slippery Rock | 30 | 29 | 29 | 29 | 30 | 29 | 15 | 15 | 15 | 15 | 15 | 14 | 24 | 23 | 23 | 23 | 24 | 24 | 11 | 11 | 11 | 10 | 13 | 15 |
| West Chester | 24 | 25 | 25 | 25 | 24 | 24 | 15 | 15 | 16 | 17 | 16 | 16 | 21 | 21 | 22 | 22 | 21 | 21 | 10 | 10 | 10 | 10 | 10 | 11 |
| Total | 27 | 27 | 27 | 28 | 28 | 28 | 16 | 16 | 16 | 16 | 16 | 15 | 23 | 22 | 23 | 23 | 23 | 23 | 10 | 10 | 11 | 11 | 11 | 11 |
| All institutions | 28 | 28 | 28 | 29 | 29 | 29 | 21 | 21 | 20 | 21 | 21 | 21 | 25 | 25 | 25 | 26 | 26 | 26 | 12 | 13 | 13 | 13 | 13 | 14 |

1. Average class size for each level is calculated by dividing total classroom student credit hours by total classroom course (assigned) credits.
a. The master's program is not included because of its very small size

SOURCE: Reports provided by the individual institutions, 1984 to 1989.

Historical Table 8
STATE APPROPRIATIONS FOR INSTRUCTION'
1984-85 to 1989-90
(in millions)

| Institution | 1984-85 | 1985-86 | 1986-87 | 1987-88 | 1988-89 | 1989-90 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| State-related |  |  |  |  |  |  |
| Lincoln ${ }^{2}$ | \$5.5 | \$5.8 | \$7.4 | \$7.9 | \$8.3 | \$9.0 |
| Penn State | 118.6 | 128.3 | 136.0 | 142.8 | 150.6 | 164.5 |
| Pittsburgh ${ }^{3}$ | 81.5 | 88.6 | 93.9 | 98.6 | 104.0 | 113.4 |
| Temple | 89.0 | 93.9 | 102.1 | 107.2 | 113.1 | 123.3 |
| Total | 294.6 | 316.6 | 339.4 | 356.5 | 376.0 | 410.2 |
| State-owned |  |  |  |  |  |  |
| Bloomsburg | 19.2 | 20.2 | 21.3 | 22.4 | 23.7 | 26.0 |
| California | 15.9 | 16.4 | 17.2 | 18.2 | 19.4 | 21.6 |
| Cheyney | 11.3 | 11.6 | 12.0 | 12.4 | 12.5 | 12.5 |
| Clarion | 17.3 | 18.0 | 19.3 | 20.6 | 21.7 | 23.3 |
| East Stroudsburg | 14.2 | 14.9 | 15.8 | 16.7 | 17.3 | 18.8 |
| Edinboro | 17.8 | 19.2 | 20.2 | 21.1 | 21.7 | 23.4 |
| Indiana | 35.2 | 37.8 | 39.8 | 41.9 | 43.8 | 47.1 |
| Kutztown | 16.8 | 17.9 | 19.3 | 20.7 | 22.1 | 24.5 |
| Lock Haven | 10.6 | 11.0 | 11.7 | 12.5 | 13.0 | 14.0 |
| Mansfield | 11.0 | 11.3 | 12.2 | 12.9 | 13.2 | 14.0 |
| Millersville | 18.9 | 20.0 | 21.2 | 22.3 | 23.6 | 25.8 |
| Shippensburg | 17.4 | 18.0 | 18.8 | 20.0 | 21.2 | 23.0 |
| Slippery Rock | 17.9 | 19.1 | 20.7 | 22.3 | 23.7 | 25.6 |
| West Chester | 25.1 | 27.0 | 28.4 | 29.9 | 31.9 | 35.4 |
| Total ${ }^{4}$ | 248.6 | 262.4 | 277.9 | 293.9 | 308.8 | 335.0 |
| All institutions ${ }^{4}$ | 543.2 | 579.0 | 617.3 | 650.4 | 684.8 | 745.2 |

1. For 1984-85 through 1988-89, instructional appropriations include actual funding for educational and general purposes only. For 1989-90, Tuition Challenge Grants are also included.
2. Includes 1984-85 and 1985-86 appropriation for Human Services and 1986-87 and 1987-88 appropriation for desegretation.
3. Includes appropriation for Titusville campus.
4. Excludes amount of appropriation allocated to Board of Governors/ Chancellor's Office and System Reserve.

SOURCE: Governor's Executive Budget, 1986-87 to 1990-91, data provided by the State System of Higher Education, Commonweal th of Pennsylvania, 1985 to 1990.

| Jnstitution | Undergraduate |  | Graduate ${ }^{\text {P }}$ |  |
| :---: | :---: | :---: | :---: | :---: |
|  | In-State | Out-of-State | In-State | Out-of-State |
| State-related lincoln |  |  |  |  |
|  |  |  |  |  |
| 1984-85 | \$1,830 | \$2,830 | \$2,325 | \$4,025 |
| 1985-86 | 1,930 | 2,930 | 2,300 | 3,800 |
| 1986-87 | 2,130 | 3.130 | 2,500 | 4,000 |
| 1987-88 | 2.130 | 3,130 | 2,500 | 4,000 |
| 1988-89 | 2,400 | 3,500 | 3,250 | 4,850 |
| 1989-90 | 2,400 | 3,500 | 3,250 | 4,850 |
| Penn State 3, 3, |  |  |  |  |
| Main Campus |  |  |  |  |
| 1984-85 | 2,562 | 5.146 | 2,730 | 5,458 |
| 1985-86 | 2,760 | 5,544 | 2.942 | 5,880 |
| 1986-87 $1987-88$ | 2.996 | 6,018 | 3,194 | 6,384 |
| $1987-88$ $1988-89$ | 3.292 3.610 | 6,610 7.248 | 3,510 3,850 | 7,016 7,694 |
| 1989-90 | 3,754 | 7.900 | 4,198 | 8,388 |
| Pittsburgh Main Campus ${ }^{2}$ |  |  |  |  |
|  |  |  |  |  |
| 1984-85 | 2,758 | 5,408 | 3,240 | 6,410 |
| 1985-86 | 3,010 | 5,900 | 3.592 | 7,102 |
| 1986-87 | 3,220 | 6,320 | 3.862 | 7,642 |
| 1987-88 | 3.486 | 6,836 | 4,202 | 8,322 |
| 1988-89 | 3.836 | 7,516 | 4,632 | 9,162 |
|  | 4,086 | B,106 | 5.046 | 9.876 |
| Temple ${ }^{2}$ (eme ${ }^{\text {2 }}$ |  |  |  |  |
| 1985-86 | 3,142 | 5,480 | 3,458 | 4,346 |
| 1986-87 | 3.350 | 5,846 | 3,698 | 4,634 |
| 1987-88 | 3,564 | 6,222 | 3,938 | 4,922 |
| 1988-89 | 3.894 | 6,802 | 4,298 | 5,378 |
| 1989-90 | 4,046 | 7,308 | 4,610 | 5,786 |
| State-owned |  |  |  |  |
| Blooms burg |  |  |  |  |
| 1984-85 | 1,714 | 2,892 | 1,624 | 1,714 |
| 1985-86 | 1,744 | 3,012 | 1,654 | 1,836 |
| 1986-87 | 1,824 | 3,220 | 1,734 | 1,926 |
| 1987-88 | 1.990 | 3,426 | 1,890 | 2,100 |
| $1988-89$ $1989-90$ | 2.290 2.398 | 3,712 | 2,190 | 2,462 |
| California 2, 2,293 2,750 |  |  |  |  |
| 1984-85 | 1.830 | 3,008 | 1,752 | 1,842 |
| 1985-86 | 1,860 | 3,128 | 1,782 | 1,964 |
| 1986-87 | 1,970 | 3,366 | 1,970 | 2,162 |
| $1987-88$ $1988-89$ | 2.120 | 3,556 | 2,120 | 2,330 |
| 1989-90 | 2,548 | 3,922 | 2,500 2,548 | 2,772 2,968 |
| Cheyney |  |  |  |  |
| 1984-85 | 1,730 | 2,908 | 1,710 | 1,800 |
| 1985-86 | 1,775 | 3,043 | 1,755 | 1,937 |
| 1986-87 | 1,880 | 3,276 | 1,860 | 2,052 |
| 1987-88 | 2,030 | 3,466 | 2,010 | 2,220 |
| 1988-89 | 2,340 | 3.702 | 2,250 | 2.527 |
| 1989-90 | 2,388 | 4.244 | 2,303 | 2,723 |
| Clarion 0 , 036 |  |  |  |  |
| 1984-85 | 1,758 | 2,936 | 1,710 | 1,800 |
| 1985-86 | 1,792 | 3,060 | 1,741 | 1,923 |
| 1986-87 | 1,882 | 3,278 | 1,831 | 2.023 |
| 1987-88 | 2,038 | 3,474 | 1,984 | 2,194 |
| 1988-89 | 2,358 | 3,780 | 2,304 | 2,576 |
| 1989-90 | 2,418 | 4,274 | 2,328 | 2,748 |
| East Stroudsburg |  |  |  |  |
| 1985-86 | 1,790 | 3,058 | 1,730 | 1,912 |
| 1986-87 | 1,870 | 3,266 | 1,810 | 2,002 |
| 1987-88 | 1.904 | 3,340 | 1,900 | 2,110 |
| $1988-89$ $1989-90$ | 2.214 | 3.636 | 2,210 | 2,482 |
| 1989-90 | 2,392 | 4,248 | 2,324 | 2,740 |


| Edinboro |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 1984-85 | 1,758 | ${ }^{2.936}$ | 1,758 | 1,848 |
| 1985-86 | 1,970 | 3.138 | 1,858 | 2,040 |
| 1987-88 | 2,120 | 3,556 | 2,096 | 2,306 |
| ${ }^{19888-89}$ | 2,390 | 3.812 | ${ }_{2}^{2}, 384$ | 2,656 |
| ${ }_{\text {Indiana }}$ |  |  |  |  |
|  |  |  |  |  |
| ${ }^{1985-86}$ | 1,824 | 3,096 | 1,748 | 1,930 |
| 1986-87 | 1,904 | 3,300 | 1,828 | 2.020 |
| - ${ }_{19888 \text {-89 }}$ | - | 3.490 | 1.978 | 2, 188 |
| 1989-90 | 2,484 | 4,340 | 2,404 | 2,728 |
| Kutzatom |  |  |  |  |
| 1985-86 | 1,738 | 2,8006 | 1.648 | 1,830 |
| ${ }_{19878-87}$ | ${ }^{1,888}$ | 3,244 | 1.728 | 1,920 |
| ${ }_{1988-89}$ | 2,322 | 3,744 |  |  |
| - 1989 -90 | 2,380 | 4.236 | 2,250 | 2.670 |
|  | 1.675 | 2,853 | na |  |
| - ${ }_{\text {1986-87 }}$ | -1,845 | - 3.2031 | na $\begin{gathered}\text { na } \\ \text { na } \\ \text { a }\end{gathered}$ | ${ }_{\text {na }}^{\text {na }}$ |
| - 19878 1-88 | -1,995 | 3,431 | na | ${ }_{\text {na }}^{\text {na }}$ |
| - ${ }_{\text {1988--90 }}$ | 2,358 | 3,612 4.214 | na | na |
| Mansfield |  |  |  |  |
| 1984-85 | 1,755 | - ${ }^{2,9033}$ | 1,650 | 1.740 |
| - ${ }_{19867-87}^{1987}$ | ${ }^{1} 1.905$ | - 3.301 | 1,780 | 1.972 |
| 1988-89 | 2, 2,555 | 3,491 3 | 2, 2,230 | 2, 2140 |
| Millersville |  |  |  |  |
| 1984-85 | 1,686 | 2,864 | 1.590 | 1,680 |
| 年 ${ }_{\text {1986-87 }}^{1985}$ | 1,7866 | - | ${ }^{1} 1.620$ | 1,802 |
| ${ }^{1987-88}$ | 2,040 | 3,476 3 | 1,934 | ${ }_{2}{ }^{2} 1148$ |
| - 1988 19899909 | 2, | 3, 4 | 2,457 | 2, 2.806 |
|  |  |  |  |  |
| 1984-85 | 1.782 | 2,960 | 1.690 | 1.780 |
| 1986-87 | +1,916 | 3,312 | 1.810 | 2 |
| 1987-88 | 2.066 | 3,502 | i,960 | 2.170 |
| - 1988 19899909 | - 2.396 | 3,818 4.300 | 2,290 2,338 | ${ }_{2}^{2,562}$ |
|  |  |  |  |  |
| - ${ }_{198586}^{1984-85}$ | 1,766 | 2.944 3.106 | 1,766 | 1,856 |
| - ${ }^{1986-87}$ | ${ }^{1}$ | ${ }^{3,318}$ | 1,891 | 2,083 |
| ${ }_{198888}$ | 2,442 | ${ }^{3} \mathbf{3 . 8 6 4}$ | 2,442 | - |
|  |  |  |  |  |
| 1984-85 | 1.694 | 2,872 | 1,694 | 1.784 |
| 1986-87 | 1,811 | ${ }^{2} \mathbf{3 , 2 0 7}$ | 1,735 | ${ }^{1.837}$ |
| 1987-88 | 1,985 | 3,421 | 1,897 | 2,107 |
| 1998-89 | 2.250 2.398 | 3, <br> 4.254 | $\underset{\substack{2.250 \\ 2 \\ 2 \\ \hline 18}}{ }$ | ${ }_{2}^{2.522}$ |

1. Excludes first-professional level.
2. Average cost for most programs; fees vary with program.
a. The graduate program is not included because of its very small size na. Not applicable.

SOURCE: Pennsylvania Department of Education, Basic Student Charges at Institutions of Higher Education, 1984-85 to 1989-90 and Colleges and
Universities--Basic Student Charqes, 1988-89 and 1989-90.

## APPENDIX: MODEL OF FTE SALARY COST DETERMINATION

Average instructional faculty salary cost per student credit hour, at each academic level and in each program area, can be expressed by the following model:


The two terms on the right-hand side of this equation illustrate the two different kinds of factors which determine FTE salary cost.

The components of the first term are approximately constants or constant relationships. In the short run, neither the number of faculty per course nor the average assigned credit per course can readily be varied to influence FTE salary cost.

The second term contains control variables: instructional faculty average salary, class (section) average size, and the number of classes (sections) per course. To at least some degree, each of these variables can be controlled by university administrators to affect FTE salary cost. Adjustments in the number of classes (sections) per course are an alternative to permitting average class size to change with changes in enrollment.

Instructional faculty salary average cost per FTE student, or FTE salary cost, equals the cost per student credit hour times 30 for undergraduate students, and times 24 for graduate students.

This model serves as the basis for the regression analysis performed by the Commission staff.


[^0]:    ${ }^{1}$ Pennsylvania Department of Education, Colleges and Universities Fall Enrollments, 1989.
    ${ }^{2}$ Unless otherwise noted, all data in this report apply to the indicated school year, which includes the summer term preceding the academic year, plus the fall and spring terms of the academic year. For example, the 1989-90 school year includes the summer and fall terms of 1983 plus the spring term of 1990.
    ${ }^{3}$ Full-time equivalent students are calculated by dividing undergraduate student credit hours by 30 and graduate student credit hours by 24 .

[^1]:    ${ }^{4}$ Beginning with the summer session of 1988 , Temple University began introducing a new Core Curriculum, which impacts upon several undergraduate level measures included in this report: undergraduate classroom and individual instruction student credit hours (FTE students), and student contact hours, are all lower as a result. Five-year comparisons are made for Temple; however, consideration must be given to this structural change in evaluating data changes.
    ${ }^{5}$ Tables 3 A through 3 E employ the Classification of Instructional Programs (CIP) taxonomy. The CIP taxonomy was introduced by the U.S. Department of Education's National Center for Education Statistics in 1981. This report utilizes an aggregation of two-digit CIP, each of which corresponds to one or more academic departments or program areas within individual institutions. The CIP groupings are used to facilitate comparisons between institutions, given the large array of departments and programs which exist in the Commonwealth's public universities.
    ${ }^{6}$ All of the public universities also award associate degrees. Associate degrees are not included in this report.

[^2]:    ${ }^{7}$ Faculty who are employed, full-time, by the public universities, and who are engaged in teaching, research or both, comprise the set of faculty whose workweek activities are reported by the universities, and summarized in table 5. Note that this is not the same set of faculty whose headcounts and instructional salaries are included in table 6.

    8Full-time instructional faculty, plus the full-time equivalency of part-time instructional faculty, comprise the set of faculty whose instructional salaries are reported by the universities and summarized in table 6 . Note that this is not the same set of faculty whose workweek activities are included in table 5.
    ${ }^{9}$ For fiscal year 1989, instructional faculty salaries comprised over 38 percent of total expenditures for "instruction" for the State-related group, and almost 61 percent for the State-owned group, as reported in the Integrated Postsecondary Education Data System (IPEDS). IPEDS data provided by the Pennsylvania Department of Education.

[^3]:    ${ }^{11}$ The details of the regression analysis used to derive these results are not included in this report. These details are available from the staff of the Joint State Government Commission. The model for the regression equation is given in the Appendix.

[^4]:    ${ }^{12}$ The Commonwealth appropriation to the State System of Higher Education included here does not include amounts appropriated for either the Board of Governors/Chancellor's Office or the System Reserve.
    ${ }^{13}$ Over the years, educational and general appropriations have been expanded to include expenditure categories which previously had been separate line items in the General Fund Budget. In this report, total educational and general appropriations are regarded as "instructional" and used for comparisons, because these appropriations are available to the public institutions for instructional purposes.
    ${ }^{14}$ Data furnished by the Pennsylvania Higher Education Assistance Agency.

[^5]:    1. The average instructional faculty salary cost per full-time equivalent student for each level is calculated as follows: the instructional salary for each rank is assigned by level according to the percentage distribution of the course (assigned) credits within each rank. The salary for each rank is summed by level and divided by total full-time equivalent students for that fevel. In the case of individual instruction, one course (assigned) credit is attributed to every three student credit hours generated
    a. Rounds to less than 1 percent.
    b. The master's program is not included because of its very small size

    SOURCE: Reports provided by the individual institutions, 1985 to 1990.

[^6]:    1. Data for each year represent the sumer term preceding the academic year plus the academic year. The first professional and doctor's level excludes medical school data at all institutions
    a. Rounds to less than one thousand student credit hours.
    b. Included in master's level
    . Ne master's program is not included because of its very small size

    - Not applicable.

[^7]:    1. Average calculated using only those full-time employed faculty in the fall who reported a complete workweek of 100 hours or less.
    2. The number of full-time employed faculty represents those reported by each institution for the fall term.
    a. The graduate program is not included because of its very small size.
    na. Not applicable.
    SOURCE: Reports provided by the individual institutions, 1985 to 1990.
