

JOINT STATE GOVERNMENT COMMISSION

General Assembly of the Commonwealth of Pennsylvania

Instructional Output and Faculty Salary Costs of the State-Related and State-Owned Universities

*Staff Analysis of 2017-18
Data Reported Under the Public School Code of
1949*

February 2019



*Serving the General Assembly of the
Commonwealth of Pennsylvania Since 1937*

REPORT

*Instructional Output and Faculty Salary Costs
of the State-Related and State-Owned Universities*

Project Staff:

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The full report is also available on our website, <http://jsg.legis.state.pa.us>.

JOINT STATE GOVERNMENT COMMISSION

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The Joint State Government Commission was created in 1937 as the primary and central non-partisan, bicameral research and policy development agency for the General Assembly of Pennsylvania.¹

A fourteen-member Executive Committee comprised of the leadership of both the House of Representatives and the Senate oversees the Commission. The seven Executive Committee members from the House of Representatives are the Speaker, the Majority and Minority Leaders, the Majority and Minority Whips, and the Majority and Minority Caucus Chairs. The seven Executive Committee members from the Senate are the President Pro Tempore, the Majority and Minority Leaders, the Majority and Minority Whips, and the Majority and Minority Caucus Chairs. By statute, the Executive Committee selects a chairman of the Commission from among the members of the General Assembly. HISTORICALLY, the Executive Committee has also selected a Vice-Chair or Treasurer, or both, for the Commission. There was also a Secretary during some years.

The studies conducted by the Commission are authorized by statute or by a simple or joint resolution. In general, the Commission has the power to conduct investigations, study issues, and gather information as directed by the General Assembly. The Commission provides in-depth research on a variety of topics, crafts recommendations to improve public policy and statutory law, and works closely with legislators and their staff.

A Commission study may involve the appointment of a legislative task force, composed of a specified number of legislators from the House of Representatives or the Senate, or both, as set forth in the enabling statute or resolution. In addition to following the progress of a particular study, the principal role of a task force is to determine whether to authorize the publication of any report resulting from the study and the introduction of any proposed legislation contained in the report. However, task force authorization does not necessarily reflect endorsement of all the findings and recommendations contained in a report.

Some studies involve an appointed advisory committee of professionals or interested parties from across the Commonwealth with expertise in a particular topic; others are managed exclusively by Commission staff with the informal involvement of representatives of those entities that can provide insight and information regarding the particular topic. When a study involves an advisory committee, the Commission seeks consensus among the members.² Although an advisory committee member may represent a particular department, agency, association, or group, such representation does not necessarily reflect the endorsement of the department, agency, association, or group of all the findings and recommendations published in a report.

¹ Act of July 1, 1937 (P.L.2460, No.459) (46 P.S. § 65).

² Consensus does not necessarily reflect unanimity among the advisory committee members on each individual policy or legislative recommendation. However, it does, at a minimum, reflect the views of a substantial majority of the advisory committee, gained after lengthy review and discussion.

Over the years, nearly one thousand individuals from across the Commonwealth have served as members of the Commission's numerous advisory committees or have assisted the Commission with its studies. Members of advisory committees bring a wide range of knowledge and experience to deliberations involving a particular study. Individuals from countless backgrounds have contributed to the work of the Commission, such as attorneys, judges, professors and other educators, state and local officials, physicians and other health care professionals, business and community leaders, service providers, administrators and other professionals, law enforcement personnel, and concerned citizens. In addition, members of advisory committees donate their time to serve the public good; they are not compensated for their service as members. Consequently, the Commonwealth of Pennsylvania receives the financial benefit of such volunteerism, along with the expertise in developing statutory language and public policy recommendations to improve the law in Pennsylvania.

The Commission periodically reports its findings and recommendations, along with any proposed legislation, to the General Assembly. Certain studies have specific timelines for the publication of a report, as in the case of a discrete or timely topic; other studies, given their complex or considerable nature, are ongoing and involve the publication of periodic reports. Completion of a study, or a particular aspect of an ongoing study, generally results in the publication of a report setting forth background material, policy recommendations, and proposed legislation. However, the release of a report by the Commission does not necessarily reflect the endorsement by the members of the Executive Committee, or the Chair or Vice-Chair of the Commission, of all the findings, recommendations, or conclusions contained in the report. A report containing proposed legislation may also contain official comments, which may be used in determining the intent of the General Assembly.³

Since its inception, the Commission has published more than 360 reports on a sweeping range of topics, including administrative law and procedure; agriculture; athletics and sports; banks and banking; commerce and trade; the commercial code; crimes and offenses; decedents, estates, and fiduciaries; detectives and private police; domestic relations; education; elections; eminent domain; environmental resources; escheats; fish; forests, waters, and state parks; game; health and safety; HISTORICAL sites and museums; insolvency and assignments; insurance; the judiciary and judicial procedure; labor; law and justice; the legislature; liquor; mechanics' liens; mental health; military affairs; mines and mining; municipalities; prisons and parole; procurement; state-licensed professions and occupations; public utilities; public welfare; real and personal property; state government; taxation and fiscal affairs; transportation; vehicles; and workers' compensation.

Following the completion of a report, subsequent action on the part of the Commission may be required, and, as necessary, the Commission will draft legislation and statutory amendments, update research, track legislation through the legislative process, attend hearings, and answer questions from legislators, legislative staff, interest groups, and constituents.

³ 1 Pa.C.S. § 1939 ("The comments or report of the commission . . . which drafted a statute may be consulted in the construction or application of the original provisions of the statute if such comments or report were published or otherwise generally available prior to the consideration of the statute by the General Assembly").



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To the Members of the General Assembly of Pennsylvania:

Pursuant to the Pennsylvania Public School Code of 1949, the Instructional Output and Faculty Salary Costs of the State-related and State-owned Universities is an annual statistical comparison of full-time equivalent student levels, degrees conferred, and average workweek hours and instructional salary of faculty, as reported by the universities and compiled by our staff.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Glenn J. Pasewicz".

Glenn J. Pasewicz
Executive Director

46th Annual Report

This report summarizes the instructional outputs, instructional faculty salary costs, tuition, and Commonwealth instructional appropriations and student aid for Pennsylvania's State-related and State-owned universities the Commonwealth's public universities.

The report is based primarily on data reported by Pennsylvania's public universities to the Pennsylvania General Assembly, as required by the Public School Code. These data include student credit hours and degrees, and faculty salaries and workweek activities. The report includes instructional faculty salaries, but does not include noninstructional faculty salaries. Therefore, average faculty salaries in the report cannot be compared to those reported in other places. In addition, since the university data do not include nonsalary expenditures, the report does not summarize total instructional costs for the universities. Data on tuition, Commonwealth instructional appropriations, and student aid from other sources supplement the university data.

Levels of data for 2017-18 and data trends for 2012-13 to 2017-18 are presented. Readers are cautioned to use the current HISTORICAL TABLEs for prior years' data, as some previous data have been revised in these TABLEs.

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 instructional appropriation data are combined for the computation of a measure of cost sharing: the percentage of total instructional revenues covered by instructional appropriations.

This report is 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.

**STATE-RELATED AND STATE-OWNED UNIVERSITIES
AND BRANCH CAMPUSES
(WITH COUNTIES)**

State-Related Universities

Lincoln (Chester)
Penn State University Park (Centre)
 Abington (Montgomery)
 Altoona (Blair)
 Beaver (Beaver)
 Behrend College (Erie)
 Berks (Berks)
 Brandywine (Delaware)
 DuBois (Clearfield)
 Eberly (Fayette)
 Great Valley (Chester)
 Greater Allegheny (Allegheny)
 Harrisburg (Dauphin)
 Hazleton (Luzerne)
 Lehigh Valley (Lehigh)
 Mont Alto (Franklin)
 New Kensington (Westmoreland)
 Schuylkill (Schuylkill)
 Shenango (Mercer)
 Wilkes-Barre (Luzerne)
 Worthington Scranton (Lackawanna)
 York (York)
Dickinson School of Law (Cumberland)**
Milton S. Hershey Medical Center (Dauphin)*
Pennsylvania College
 of Technology (Lycoming)**
Pittsburgh (Allegheny)*
 Bradford Campus (McKean)
 Greensburg Campus (Westmoreland)
 Johnstown Campus (Cambria)
 Titusville Campus (Crawford)
Temple (Philadelphia)*
 Ambler Campus (Montgomery)
 Harrisburg Center (Dauphin)

State-Owned Universities

Bloomsburg (Columbia)
California (Washington)
Cheyney (Delaware)
Clarion (Clarion)
 Venango Campus (Venango)
East Stroudsburg (Monroe)
Edinboro (Erie)
Indiana (Indiana)
 Armstrong Campus (Armstrong)
 Punxsutawney Campus (Jefferson)
Kutztown (Berks)
Lock Haven (Clinton)
 Clearfield Campus (Clearfield)
Mansfield (Tioga)
Millersville (Lancaster)
Shippensburg (Cumberland)
Slippery Rock (Butler)
West Chester (Chester)

* Medical School data not included in this report.

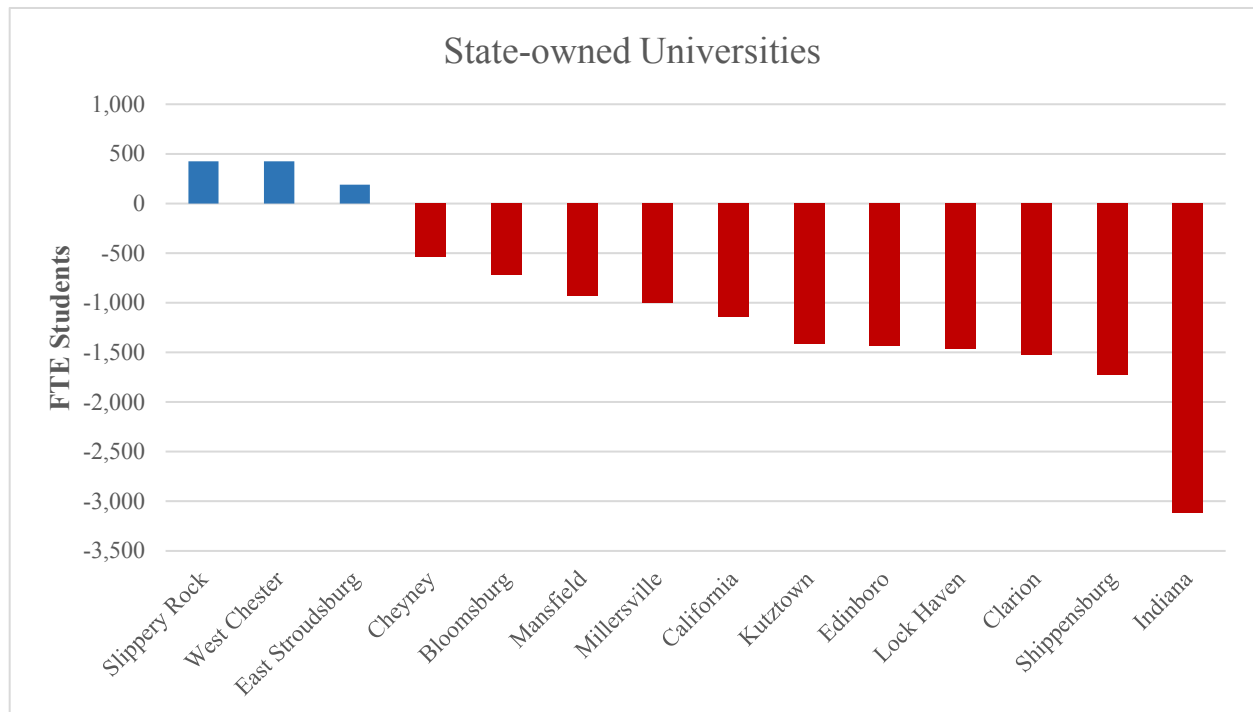
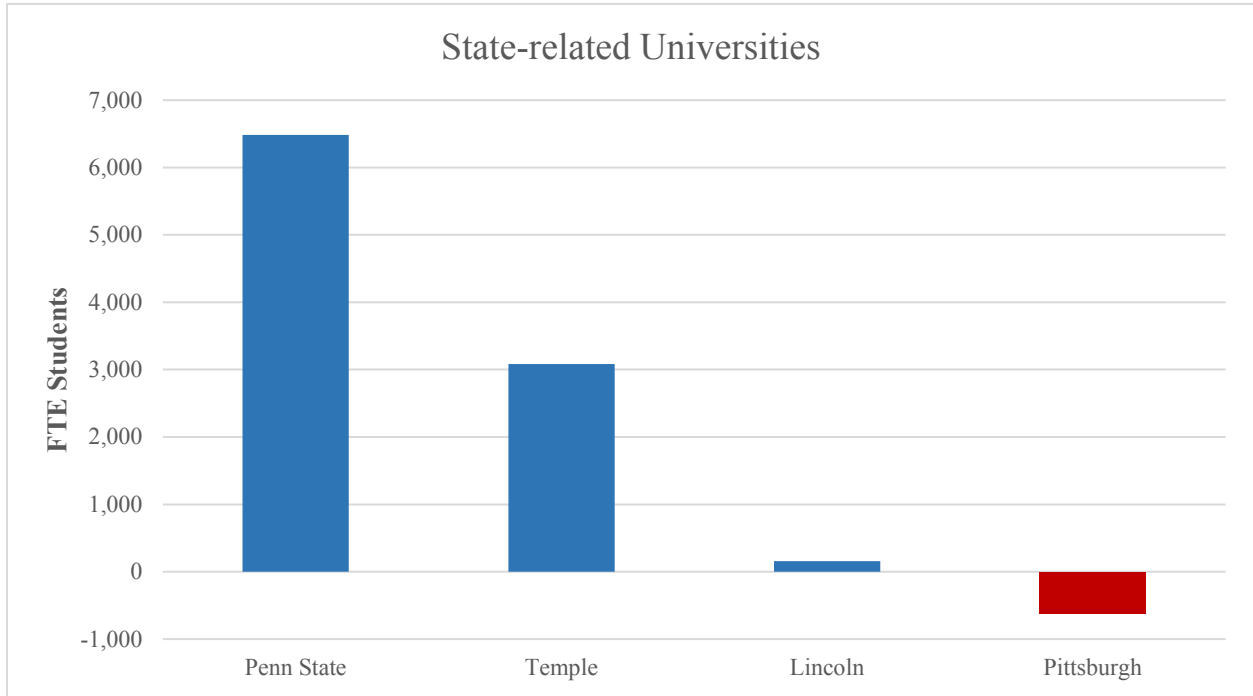
** Not included in this report.

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CHANGES IN FTE STUDENT ENROLLMENTS IN THE
STATE-RELATED AND STATE-OWNED UNIVERSITIES
2012-13 TO 2017-18



CURRENT YEAR DATA TABLES

Table 1
 FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC LEVEL¹
 2017-18, CHANGE FROM 2016-17 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (2012-13 to 2017-18)

University	Total				Undergraduate				Graduate ²			
	FTE Students	One-year change	Percent change		FTE students	One-year change	Percent change		FTE students	One-year change	Percent change	
			One-year	Five-year average			One-year	Five-year average			One-year	Five-year average
State-related												
Lincoln	2,142	238	13%	2%	1,912	219	13%	4%	230	18	9%	-8%
Penn State	90,283	-434	a	2	80,683	-903	-1	1	9,600	469	5	3
Pittsburgh	33,617	-223	-1	a	23,577	-67	-1	1	8,240	-156	-2	-3
Temple	37,374	139	a	2	30,066	492	2	2	7,308	-354	-5	1
Total	163,418	-279	a	1	138,038	-259	a	1	25,379	-22	a	a
State-owned												
Bloomsburg	8,811	-398	-4	-2	8,230	-424	-5	-1	581	25	5	-3
California	6,955	-339	-5	-3	5,103	-226	-4	-4	1,852	-113	-6	a
Cheyney	710	-57	-7	-10	674	-57	-8	-10	36	0	-1	9
Clarion	4,414	-201	-4	-6	3,808	-214	-5	-6	606	13	2	-2
East Stroudsburg	6,219	259	4	1	5,712	221	4	1	507	38	8	2
Edinboro	5,193	-472	-8	-5	4,114	-487	-11	-6	1,079	15	1	2
Indiana	11,379	-590	-5	-5	9,912	-526	-5	-5	1,468	-63	-4	-2
Kutztown	7,674	-222	-3	-3	7,124	-254	-3	-4	551	32	6	8
Lock Haven	3,735	-3931	-10	-6	3,303	-384	-10	-7	432	-9	-2	2
Mansfield	1,846	-244	-12	-8	1,813	-230	-11	-7	33	-45	-58	-31
Millersville	6,969	-85	-1	-2	6,229	-135	-2	-2	639	50	9	a
Shippensburg	5,868	-751	-11	-5	5,297	-713	-12	-5	571	-38	-6	-2
Slippery Rock	9,102	62	1	1	7,803	-33	a	a	1,299	95	8	12
West Chester	14,967	-637	-4	1	13,362	-487	-4	a	1,605	-150	-9	3
Total	93,742	-3,780	-4	-3	82,483	-3,628	-4	-3	11,259	-152	-1	1
All universities	257,159	-4,060	-2	a	220,521	-3,887	-2	a	36,638	-137	a	1

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. Graduate includes master's level at all universities, first professional and/or doctor's level (excluding medical school) at Penn State, Pittsburg, Temple, Bloomsburg, East Stroudsburg, Indiana, Slippery Rock, and West Chester.

a. Rounds to less than 1 percent.

SOURCE: Data provided by the individual universities, 2012 to 2018.

Table 2
FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC DIVISION AND LEVEL¹
2017-18, CHANGE FROM 2016-17 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (2012-13 to 2017-18)

University	Lower Division			Upper Division			Master's			First professional ² and doctor's		
	FTE Students	One-year	Percent change	FTE students	One-year	Percent change	FTE students	One-year	Percent change	FTE students	One-year	Percent change
			Five-year average			Five-year average			Five-year average			Five-year average
State-related												
Lincoln	1,481	15%	5%	432	7%	1%	230	9%	-8%	na	na	na
Penn State	42,446	-1	a	38,237	-1	2	5,148	7	5	4,452	4%	2%
Pittsburgh	16,256	-1	a	9,121	2	1	5,347	-5	-3	2,894	4	-2
Temple	13,612	a	3	16,454	3	1	4,030	7	6	3,278	-16	-4
Total	73,795	-1	1	64,243	a	2	14,755	2	2	10,624	-3	-1
State-owned												
Bloomsburg	5,669	-7	-2	2,562	a	1	500	2	-3	80	22	5
California	2,645	-3	-5	2,458	-6	-3	1,829	-7	a	na	na	na
Cheyney	410	-5	-10	264	-12	-9	36	-1	9	na	na	na
Clarion	2,331	-7	-8	1,476	-2	-2	599	1	-3	na	na	na
East Stroudsburg	3,756	1	a	1,955	11	2	489	9	2	18	-20	17
Edinboro	2,436	-16	-7	1,642	-3	-5	1,072	1	2	na	na	na
Indiana	6,477	-4	-6	3,435	-6	-3	1,165	a	4	345	-7	-11
Kutztown	3,671	-6	-5	3,453	-1	-2	551	6	8	na	na	na
Lock Haven	2,295	-7	-8	1,008	-17	-5	432	-2	2	na	na	na
Mansfield	949	-9	-9	864	-14	-5	33	-31	-24	na	na	na
Millersville	3,784	-1	-2	2,446	-3	-3	623	9	a	na	na	na
Shippensburg	3,536	-8	-4	1,760	-4	-3	567	-11	a	na	na	na
Slippery Rock	4,718	-1	a	3,085	1	a	1,006	11	15	294	-1	4
West Chester	8,163	-2	a	5,119	-5	1	1,523	-8	2	82	-16	na
Total	50,841	-5	-4	31,606	-3	-2	10,423	-1	2	842	-4	-2
All universities:	124,636	-2	-1	95,849	-1	a	25,179	1	2	11,466	-3	-1

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.

na. Not applicable.

SOURCE: Data provided by the individual universities, 2012 to 2018.

Table 3A
 LINCOLN UNIVERSITY
 NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
 2017-18

CIP Classification	Total	Percent of Total	Undergraduate				Graduate	Percent of total
			Lower Division	Percent of total	Upper division	Percent of total		
Agriculture	-	-	-	-	-	-	-	-
Architecture and Related Services	-	-	-	-	-	-	-	-
Area, Ethnic, Cultural, and Gender Studies	83	4%	80	5%	3	1%	-	-
Business	165	9	40	3	80	18	45	20%
Communications	89	5	39	3	50	12	-	-
Computer and Information Sciences and Support Services	64	3	53	4	12	3	-	-
Personal and Culinary Services	-	-	-	-	-	-	-	-
Education	88	5	-	-	-	-	88	38
Engineering	13	1	9	1	3	1	-	-
Foreign Languages, Literature, and Linguistics	57	3	50	3	7	2	-	-
Health Professions and Related Clinical Sciences	150	8	78	5	72	17	-	-
Family and Consumer Sciences/ Human Sciences	-	-	-	-	-	-	-	-
Technology Education/Industrial Arts	-	-	-	-	-	-	-	-
Legal Professions and Studies	-	-	-	-	-	-	-	-
English Language and Literature/Letters	241	13	220	15	20	5	-	-
Liberal Arts and Sciences, General Studies and Humanities	-	-	-	-	-	-	-	-
Library Science	-	-	-	-	-	-	-	-
Biological and Biomedical Sciences	124	6	106	7	18	4	-	-
Mathematics and Statistics	185	10	182	12	3	1	-	-
Military Technologies	-	-	-	-	-	-	-	-
Multi/Interdisciplinary Studies	-	-	-	-	-	-	-	-
Parks, Recreation, Leisure, and Fitness Studies	-	-	-	-	-	-	-	-
Personal and Social Development	-	-	-	-	-	-	-	-
Philosophy and Religion/Theology	81	4	81	5	-	-	-	-
Physical Sciences	109	6	101	7	8	2	-	-
Psychology	89	5	35	2	23	5	31	14
Security and Protective Services/ Public Administration and Services	147	8	48	3	40	9	60	26
Social Sciences and History	277	15	186	13	86	20	6	2
Trade and Industrial	-	-	-	-	-	-	-	-
Visual and Performing Arts	136	7	131	9	5	1	-	-
Other	43	2	43	3	-	-	-	-
Total ²	1,912	100	1,481	100	432	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. Because of rounding, CIP detail may not sum to total.

a. Rounds to less than 1 percent.

SOURCE: Data provided by Lincoln University, 2018; CIP classifications as defined in "The Integrated Postsecondary Education Data System (IPEDS) Classification of Instructional Programs (CIP)" <http://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55> U.S. Department of Education, National Center for Education Statistics.

Table 3B
PENNSYLVANIA STATE UNIVERSITY
NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
2016-17

CIP Classification	Total	Percent of Total	Undergraduate				Graduate	Percent of Total
			Lower Division	Percent of Total	Upper division	Percent of Total		
Agriculture	1,497	2%	643	2%	708	1%	146	2%
Architecture and Related Services	484	1	175	a	265	a	44	a
Area, Ethnic, Cultural, and Gender Studies	1,064	1	844	2	161	a	58	1
Business	10,435	12	1,936	5	6,948	8	1,551	16
Communications	4,307	5	2,753	6	1,474	2	81	1
Computer and Information Sciences and Support Services	3,987	4	1,673	4	1,795	5	519	5
Personal and Culinary Services	-	-	-	-	-	-	-	-
Education	2,269	3	153	a	1,116	3	1,000	10
Engineering	9,009	10	2,287	5	5,163	14	1,559	16
Foreign Languages, Literature, and Linguistics	3,661	4	1,820	4	1,720	4	120	1
Health Professions and Related Clinical Sciences	3,267	4	676	2	2,025	5	566	6
Family and Consumer Sciences/ Human Sciences	2,120	2	951	2	1,061	3	108	1
Technology Education/Industrial Arts	-	-	-	-	-	-	-	-
Legal Professions and Studies	875	1	-	-	2	a	872	9
English Language and Literature/Letters	4,269	5	3,373	8	816	2	80	1
Liberal Arts and Sciences, General Studies and Humanities	97	a	29	a	63	a	5	a
Library Science	-	-	-	-	-	-	-	-
Biological and Biomedical Sciences	5,356	6	2,876	7	2,292	6	188	2
Mathematics and Statistics	8,614	10	5,432	13	2,760	7	421	4
Military Technologies	72	a	39	a	34	a	-	-
Multi/Interdisciplinary Studies	883	1	191	a	238	1	453	5
Parks, Recreation, Leisure, and Fitness Studies	2,026	2	510	1	1,465	4	51	1
Personal and Social Development	6	a	-	-	5	a	-	-
Philosophy and Religion/Theology	1,159	1	951	2	177	a	30	a
Physical Sciences	7,014	8	5,289	12	1,211	3	514	5
Psychology	3,531	4	1,716	4	1,449	4	366	4
Security and Protective Services/ Public Administration and Services	1,744	2	806	2	687	2	251	3
Social Sciences and History	8,580	10	5,178	12	2,954	8	448	5
Trade and Industrial	-	-	-	-	-	-	-	-
Visual and Performing Arts	3,953	4	2,143	5	1,642	4	169	2
Other	-	-	-	-	-	-	-	-
Total²	90,283	100	42,446	100	38,237	100	9,600	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. Because of rounding, CIP detail may not sum to total.

a. Rounds to less than 1 percent.

SOURCE: Data provided by Penn State University, 2017; CIP classifications as defined in "The Integrated Postsecondary Education Data System (IPEDS) Classification of Instructional Programs (CIP)" <http://nces.ed.gov/ipeds/cipcode/Default.aspx?v=55> U.S. Department of Education, National Center for Education Statistics.

Table 3C
 UNIVERSITY OF PITTSBURGH
 NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
 2017-18

CIP Classification	Total	Percent of Total	Undergraduate				Graduate	Percent of Total
			Lower Division	Percent of Total	Upper division	Percent of Total		
Agriculture	-	-	-	-	-	-	-	-
Architecture and Related Services	-	-	-	-	-	-	-	-
Area, Ethnic, Cultural, and Gender Studies	373	1%	169	1%	194	2%	10	a
Business	2,491	7	501	3	1,297	14	692	8%
Communications	-	-	-	-	-	-	-	-
Computer and Information Sciences and Support Services	1,613	5	822	5	381	4	410	5
Personal and Culinary Services	-	-	-	-	-	-	-	-
Education	1,473	4	491	3	375	4	607	7
Engineering	2,792	8	1,014	6	1,049	12	736	9
Foreign Languages, Literature, and Linguistics	1,509	4	1,046	6	376	4	87	1
Health Professions and Related Clinical Sciences	4,733	14	472	3	1,054	12	3,207	38
Family and Consumer Sciences/ Human Sciences	-	-	-	-	-	-	-	-
Technology Education/Industrial Arts	-	-	-	-	-	-	-	-
Legal Professions and Studies	556	2	-	-	11	a	545	6
English Language and Literature/Letters	2,548	8	1,935	12	545	6	68	1
Liberal Arts and Sciences, General Studies and Humanities	-	-	-	-	-	-	-	-
Library Science	101	a	7	a	3	a	91	1
Biological and Biomedical Sciences	1,777	5	1,003	6	666	7	108	1
Mathematics and Statistics	2,193	7	1,586	10	451	5	155	2
Military Technologies	19	a	9	a	10	a	-	-
Multi/Interdisciplinary Studies	876	3	567	3	279	3	31	a
Parks, Recreation, Leisure, and Fitness Studies	-	-	-	-	-	-	-	-
Personal and Social Development	-	-	-	-	-	-	-	-
Philosophy and Religion/Theology	616	2	418	3	176	2	22	a
Physical Sciences	2,821	8	2,272	14	277	3	272	3
Psychology	1,439	4	872	5	411	5	155	2
Security and Protective Services/ Public Administration and Services	1,328	4	130	1	377	4	820	10
Social Sciences and History	3,287	10	2,071	13	1,044	11	171	2
Trade and Industrial	-	-	-	-	-	-	-	-
Visual and Performing Arts	1,109	3	855	5	187	2	68	1
Other	-	-	-	-	-	-	-	-
Total ²	33,617	100	16,256	100	9,121	100	8,240	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. Because of rounding, CIP detail may not sum to total.

a. Rounds to less than 1 percent.

SOURCE: Data provided by Pittsburgh University, 2018; CIP classifications as defined in "The Integrated Postsecondary Education Data System (IPEDS) Classification of Instructional Programs (CIP)" <http://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55> U.S. Department of Education, National Center for Education Statistics.

Table 3D
 TEMPLE UNIVERSITY
 NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
 2017-18

CIP Classification	Total	Percent of Total	Undergraduate				Graduate	Percent of Total
			Lower Division	Percent of Total	Upper division	Percent of Total		
Agriculture	-	-	-	-	-	-	-	-
Architecture and Related Services	251	1%	81	1%	120	1%	50	1%
Area, Ethnic, Cultural, and Gender Studies	506	1	239	2	252	2	14	a
Business	6,734	18	1,637	12	3,478	21	1,620	22
Communications	2,436	7	848	6	1,493	9	95	1
Computer and Information Sciences and Support Services	770	2	276	2	439	3	56	1
Personal and Culinary Services	-	-	-	-	-	-	-	-
Education	1,744	5	518	4	733	4	493	7
Engineering	1,401	4	483	4	835	5	83	1
Foreign Languages, Literature, and Linguistics	1,132	3	545	4	575	3	12	a
Health Professions and Related Clinical Sciences	3,606	10	348	3	792	5	2,466	34
Family and Consumer Sciences/ Human Sciences	-	-	-	-	-	-	-	-
Technology Education/Industrial Arts	-	-	-	-	-	-	-	-
Legal Professions and Studies	1,304	3	189	1	128	1	987	14
English Language and Literature/Letters	1,288	3	941	7	316	2	31	a
Liberal Arts and Sciences, General Studies and Humanities	1,272	3	915	7	349	2	8	a
Library Science	-	-	-	-	-	-	-	-
Biological and Biomedical Sciences	800	2	263	2	461	3	77	1
Mathematics and Statistics	1,500	4	1,049	8	433	3	18	a
Military Technologies	-	-	-	-	-	-	-	-
Multi/Interdisciplinary Studies	73	a	35	a	36	a	2	a
Parks, Recreation, Leisure, and Fitness Studies	1,528	4	416	3	947	6	165	2
Personal and Social Development	-	-	-	-	-	-	-	-
Philosophy and Religion/Theology	637	2	304	2	310	2	23	a
Physical Sciences	1,668	4	839	6	727	4	101	1
Psychology	1,674	4	613	5	844	5	217	3
Security and Protective Services/ Public Administration and Services	1,027	3	220	2	477	3	330	5
Social Sciences and History	3,310	9	1,698	12	1,447	9	165	2
Trade and Industrial	-	-	-	-	-	-	-	-
Visual and Performing Arts	2,714	7	1,154	8	1,264	8	297	4
Other	-	-	-	-	-	-	-	-
Total ²	37,374	100	13,612	100	16,454	100	7,308	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. Because of rounding, CIP detail may not sum to total.

a. Rounds to less than 1 percent.

SOURCE: Data provided by Temple University, 2018; CIP classifications as defined in "The Integrated Postsecondary Education Data System (IPEDS) Classification of Instructional Programs (CIP)" <http://nces.ed.gov/ipeds/cipcode/Default.aspx?v=55> U.S. Department of Education, National Center for Education Statistics.

Table 3E
STATE-OWNED UNIVERSITIES
NUMBER AND PERCENTAGE DISTRIBUTION OF FULL-TIME EQUIVALENT STUDENTS¹
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
2017-18

CIP Classification	Total	Percent of Total	Undergraduate				Graduate	Percent of Total
			Lower Division	Percent of Total	Upper division	Percent of Total		
Agriculture	230	a	165	a	59	a	5	a
Architecture and Related Services	33	a	-	-	26	a	7	a
Area, Ethnic, Cultural and Gender Studies	669	1%	373	1%	289	1%	5	a
Business	10,045	11	3,023	6	5,911	19	1,110	10%
Communications	3,853	4	2,551	5	1,211	4	91	1
Computer and Information Sciences and Support Services	1,973	2	1,200	2	676	2	97	1
Personal and Culinary Services	193	a	122	a	81	a	-	-
Education	9,573	10	2,313	5	4,123	13	3,138	28
Engineering	756	1	245	a	406	1	104	1
Foreign Languages, Literature and Linguistics	1,950	2	1,553	3	327	1	70	1
Health Professions and Related Clinical Sciences	7,729	8	1,801	4	3,535	11	2,394	21
Family and Consumer Sciences/ Human Sciences	509	1	177	a	290	1	42	a
Technology Education/Industrial Arts	-	-	-	-	-	-	-	-
Legal Professions and Studies	347	1	225	a	85	a	37	a
English Language and Literature/Letters	6,120	7	4,601	9	1,342	4	177	2
Liberal Arts and Sciences, General Studies and Humanities	304	a	260	1	40	a	4	a
Library Science	250	a	15	a	12	a	223	2
Biological and Biomedical Sciences	4,293	5	3,031	6	1,165	4	96	1
Mathematics and Statistics	5,242	6	4,482	9	632	2	128	1
Military Technologies	143	a	98	a	45	a	-	-
Multi/Interdisciplinary Studies	666	1	424	1	203	1	40	a
Parks, Recreation, Leisure and Fitness Studies	3,650	4	1,255	2	1,508	5	888	8
Personal and Social Development	940	1	873	2	65	a	2	a
Philosophy and Religion/Theology	1,635	2	1,359	3	248	1	28	a
Physical Sciences	5,871	6	4,850	10	900	3	121	1
Psychology	5,227	6	2,644	5	1,856	6	728	6
Security and Protective Services/ Public Administration and Services	4,666	5	1,393	3	2,040	6	1,234	11
Social Sciences and History	10,826	12	7,703	15	2,853	9	270	2
Trade and Industrial	3	a	-	-	3	a	-	-
Visual and Performing Arts	5,979	6	4,085	8	1,667	5	227	2
Other	65	a	29	a	9	a	27	a
Total ²	93,728	100	50,841	100	31,606	100	11,281	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. Because of rounding, CIP detail may not sum to total.

a. Rounds to less than 1 percent.

SOURCE: Data provided by the State-related Universities, 2018; CIP classifications as defined in "The Integrated Postsecondary Education Data System (IPEDS) Classification of Instructional Programs (CIP)" <http://nces.ed.gov/ipeds/cipcode/Default.aspx?v=55> U.S. Department of Education, National Center for Education Statistics.

Table 4
DEGREES CONFERRED¹
2016-17, CHANGE FROM 2015-16 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (2012-13 to 2017-18)

University	Total				Undergraduate				Graduate ²			
	Degrees	One-year change	Percent change		Degrees	One-year change	Percent change		Degrees	One-year change	Percent change	
			One-year	Five-year average			One-year	Five-year average			One-year	Five-year average
State-related												
Lincoln	384	-21	-5%	-3%	259	-20	-7%	-3%	125	-1	-1%	-2%
Penn State	21,446	870	4	3	17,089	790	5	3	4,357	80	2	4
Pittsburgh	9,048	-109	-1	1	5,655	122	2	1	3,393	-231	-6	2
Temple	9,718	6,515	7	3	6,472	16	a	1	3,246	599	23	6
Total	40,596	1,355	3	2	29,475	908	3	2	11,121	447	4	4
State-owned												
Bloomsburg	2,076	-14	-1	a	1,817	-21	-1	2	259	7	3	-7
California	2,344	-289	-11	-1	1,379	1	a	-1	965	-134	-12	a
Cheyney	175	-19	-10	a	151	3	2	-1	24	-22	-48	38
Clarion	1,240	27	2	-2	882	9	1	-1	358	18	5	-5
East Stroudsburg	1,487	-28	-2	a	1,234	-38	-3	a	253	10	4	-1
Edinboro	1,285	-93	-7	-4	842	-77	-8	-4	443	-16	-3	-3
Indiana	2,969	-88	-3	-1	2,221	-49	-2	-2	748	-39	-5	2
Kutztown	1,811	-138	-7	-3	1,530	-204	-12	-4	281	65	30	5
Lock Haven	970	-153	-14	-1	809	-138	-16	-2	161	-15	-9	6
Mansfield	521	24	5	-5	485	31	7	-3	36	-7	-16	-21
Millersville	1,632	-152	-9	-1	1,367	-131	-9	-1	265	-21	-7	a
Shippensburg	1,554	-112	-7	-3	1,188	-104	-8	-4	366	-8	-2	1
Slippery Rock	2,243	53	2	1	1,763	3	a	-1	480	50	12	8
West Chester	4,559	32	1	4	3,671	-59	-2	4	888	91	11	5
Total	24,802	-795	-3	-1	19,275	-774	-4	-1	5,527	-21	a	a
All universities	65,398	560	1	1	48,750	134	a	1	16,648	426	3	2

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

2. Graduate includes master's level at all universities, first professional and/or doctor's level (excluding medical school) at Penn State, Pittsburgh, Temple, Bloomsburg, East Stroud Indiana, Slippery Rock, and West Chester.

a. Rounds to less than 1 percent.

SOURCE: Data provided by the individual universities, 2012 to 2018.

Table 5
NUMBER AND WORKWEEKS OF FULL-TIME EMPLOYED FACULTY BY TYPE OF ACTIVITY
FALL 2017, AND PERCENTAGE CHANGE FROM FALL 2016

University	Full-time employed faculty ¹	Student contact				Average weekly hours ²							
		Undergraduate	Percent change	Graduate	Percent change	Instructional support ³	Percent change	Research	Percent change	Other university service ⁴	Percent change	Total work-week	Percent change
State-related													
Lincoln	100	11	7%	1	-50%	18	32%	9	3%	12	25%	51	17%
Penn State	4,246	10	1	3	a	14	2	14	a	8	a	49	1
Pittsburgh	2,842	4	-16	2	-6	13	-8	21	4	10	1	50	-3
Temple	1,401	5	1	3	a	17	-4	13	-4	10	-2	48	-3
Total	8,589	7	-7	3	-1	14	-3	17	6	9	2	49	a
State-owned													
Bloomsburg	408	12	-2	1	3	19	1	9	6	17	2	57	2
California	277	10	-2	2	15	14	-31	4	-41	13	-3	43	-27
Cheyney	45	9	-5	1	-14	15	6	11	5	17	5	53	4
Clarion	198	10	8	2	50	20	16	7	9	14	9	53	13
East Stroudsburg	289	12	-5	2	22	16	-4	6	-25	17	-5	52	-7
Edinboro	228	11	-2	2	-16	19	-5	7	-5	14	a	52	-3
Indiana	633	9	1	2	-7	18	a	9	a	20	-2	58	-1
Kutztown	419	9	-8	1	-11	13	-9	6	-6	14	-5	43	-7
Lock Haven	219	11	5	1	-2	21	10	7	6	17	1	56	6
Mansfield	128	19	11	1	-18	20	9	8	15	21	19	69	13
Millersville	317	10	a	1	26	18	5	9	6	18	2	56	4
Shippensburg	276	9	-8	1	-7	15	-9	8	-8	17	-14	49	-10
Slippery Rock	379	11	6	2	31	19	1	8	-3	18	3	57	3
West Chester	671	11	a	2	15	18	2	12	5	18	6	61	4
Total	8,589	7	-7	3	-1	14	-3	16	6	9	2	49	a
All universities:	12,516	8	-4	2	1	16	1	14	6	12	1	52	2

1. The number of full-time employed faculty represents those reported by each university for the fall term.

2. Averages calculated for the full-time employed faculty who reported complete workweeks of 100 hours or less for the fall term.

3. Includes course preparation and evaluation.

4. Includes public service, institutional support and student services.

a. Rounds to less than 1 percent.

na. Not applicable.

SOURCE: Data provided by the individual universities, 2017 to 2018

Table 6
NUMBER AND AVERAGE INSTRUCTIONAL SALARIES OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY AND PERCENTAGE DISTRIBUTION BY RANK¹
 2017-18
 (Dollars in thousands)

University	FTE Instructional faculty		Average Instructional salary		Professor		Associate professor		Assistant professor		Instructor		No rank ²	
	Number	Percent Change 2015-16 to 2016-17	Amount	Percent Change 2015-16 to 2016-17	Average Instructional Salary	Percent of Faculty Salary	Average Instructional Salary	Percent of Faculty Salary	Average Instructional Salary	Percent of Faculty Salary	Average Instructional Salary	Percent of Faculty Salary	Average Instructional Salary	Percent of Faculty Salary
State-related														
Lincoln	164	6%	51.2	6%	92.9	28%	68.6	24%	65.0	25%	21.4	18%	59.1	6%
Penn State	4,906	-1	82.5	3	136.2	27	95.6	19	81.2	14	59.6	21	64.7	19
Pittsburgh	2,213	1	64.5	-2	128.5	30	78.4	22	65.8	22	36.2	8	50.9	25
Temple	1,929	a	68.3	45	121.9	27	84.2	25	60.5	24	41.8	11	46.6	14
Total	9,212	1	75.7	8	130.8	27	88.2	21	70.5	17	52.1	16	57.3	19
State-owned														
Bloomsburg	479	a	75.1	1	103.7	36	82.0	23	65.4	26	48.9	15	na	na
California	340	-2	78.2	1	102.5	38	82.6	26	69.8	21	50.7	14	68.2	1
Cheyney	67	12	72.1	7	88.8	42	90.8	29	67.8	10	41.8	18	na	na
Clarion	246	-2	77.3	-2	140.1	39	82.2	23	69.9	21	49.9	17	na	na
East Stroudsburg	437	27	61.3	-7	84.4	44	64.1	29	48.3	10	38.0	17	4.9	a
Edinboro	336	-6	78.0	a	112.3	37	84.3	25	69.7	24	45.3	14	na	na
Indiana	629	-1	76.9	1	101.7	32	83.1	31	65.0	27	50.6	9	46.1	1
Kutztown	441	-2	73.8	a	95.2	34	79.8	36	58.5	22	46.8	8	72.1	a
Lock Haven	221	-3	83.3	5	99.6	49	84.3	27	63.5	20	53.4	4	na	na
Mansfield	223	-9	35.3	10	51.2	31	38.4	37	28.4	17	22.5	15	na	na
Millersville	398	-1	75.2	a	101.2	34	82.9	34	64.3	21	44.1	12	na	na
Shippensburg	347	-1	83.4	1	102.0	44	85.1	35	69.7	13	45.3	7	na	na
Slippery Rock	415	a	74.0	-2	99.9	29	74.5	29	67.2	26	54.5	15	96.5	1
West Chester	857	a	72.5	10	98.9	32	80.4	26	68.2	23	47.3	18	24.3	a
Total	4,995	-10	73.3	2	98.0	36	78.1	29	64.0	22	46.0	13	53.5	a
All universiti	14,207	-3	74.8	6	114,393.0	31	83.4	24	67.7	19	50.0	15	57.3	12

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

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

a. Rounds to less than 1 percent.

na. Not applicable.

SOURCE: Data provided by the individual universities, 2017 to 2018.

Table 7
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT BY ACADEMIC DIVISION AND LEVEL¹
 2017-18, CHANGE FROM 2016-17 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (2012-13 to 2017-18)

University	Undergraduate						Master's					
	Lower Division	Percent change		Upper Division	Percent change		Total undergraduate	Total master's	Percent change			
		One-year	Five-year average		One-year	Five-year average			One-year	Five-year average		
State-related												
Lincoln	\$3,193	-2%	1%	\$6,224	3%	18%	\$3,877	-1%	5%	\$4,227	5%	-2%
Penn State	3,811	1	1	4,669	3	3	4,217	2	2	6,246	-3	a
Pittsburgh	3,093	5	4	4,935	4	3	3,755	5	3	5,608	8	3
Temple	2,735	48	-1	3,640	44	1	3,230	46	a	4,859	38	6
Total	3,129	-1	3	4,031	3	a	3,548	1	2	5,534	a	1
State-owned												
Bloomsburg	2,859	6	1	6,066	2	7	3,857	5	4	7,548	7	3
California	2,903	3	4	4,506	7	4	3,675	5	4	4,180	3	6
Cheyney	5,064	15	7	8,179	36	17	6,284	24	10	16,484	73	24
Clarion	3,564	3	3	5,021	-2	-3	4,129	1	1	5,236	-4	5
East Stroudsburg	2,784	-3	-1	6,204	-11	8	3,955	-6	3	8,440	-4	8
Edinboro	3,530	5	a	7,120	a	11	4,975	5	4	5,546	-3	2
Indiana	2,734	5	-3	5,802	9	2	3,797	7	a	7,388	8	13
Kutztown	3,305	1	6	5,078	a	4	4,165	1	5	5,201	1	-1
Lock Haven	4,570	13	a	6,128	16	a	5,046	13	a	4,008	3	1
Mansfield	3,520	16	-1	4,965	22	a	4,209	19	-1	7,101	49	1
Millersville	3,731	1	3	4,995	-1	5	4,227	a	4	5,568	-1	5
Shippensburg	3,391	8	a	6,752	3	10	4,508	6	4	8,803	13	2
Slippery Rock	2,385	-3	-2	4,610	-7	1	3,265	-5	-3	4,440	14	-3
West Chester	2,678	8	a	4,897	8	2	3,541	8	1	6,578	11	6
Total	3,129	-1	3	4,031	3	a	3,548	5	2	5,534	a	1
All universities	3,209	5	7	4,411	a	1	3,730	3	2	5,475	-3	1

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.

a. Rounds to less than 1 percent.

SOURCE: Data provided by the individual universities, 2011 to 2017.

Table 8A
 LINCOLN UNIVERSITY
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
 2017-18

CIP Classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional	Doctor's
Agriculture						
Architecture and Related Services						
Area, Ethnic, Cultural, and Gender Studies	\$959	\$80	\$625		-	-
Business	2,461	4,878	4,077	\$3,856	-	-
Communications	2,798	5,209	4,159		-	-
Computer and Information Sciences and Support Services	3,825	8,581	4,691		-	-
Personal and Culinary Services						
Education	-	-	-	3,654	-	-
Engineering	3,770	15,699	6,831	-	-	-
Foreign Languages, Literature, and Linguistics	3,522	10,329	43,156	-	-	-
Health Professions and Related Clinical Sciences	4,787	7,488	6,079	-	-	-
Family and Consumer Sciences/ Human Sciences						
Technology Education/Industrial Arts						
Legal Professions and Studies						
English Language and Literature/Letters	2,625	4,405	2,775	-	-	-
Liberal Arts and Sciences, General Studies and Humanities						
Library Science						
Biological and Biomedical Sciences	3,768	12,703	5,086	-	-	-
Mathematics and Statistics	3,389	11,040	3,525	-	-	-
Military Technologies	-	26,250	26,250	-	-	-
Multi/Interdisciplinary Studies						
Parks, Recreation, Leisure, and Fitness Studies						
Personal and Social Development						
Philosophy and Religion/Theology	2,843	-	2,843	-	-	-
Physical Sciences	5,605	24,424	7,049	-	-	-
Psychology	3,399	4,981	4,024	4,717	-	-
Security and Protective Services/ Public Administration and Services	2,871	3,934	3,356	2,284	-	-
Social Sciences and History	2,692	5,094	3,453	2,492	-	-
Trade and Industrial						
Visual and Performing Arts	4,098	17,141	4,619	-	-	-
Other	835	-	835	-	-	-
Total	3,193	6,224	3,877	4,227	-	-

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.

SOURCE: Data provided by Lincoln University, 2018; CIP classifications as defined in "The Integrated Postsecondary Education Data System (IPEDS) Classification of Instructional Programs (CIP)" <http://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55> U.S. Department of Education, National Center for Education Statistics.

Table 8B
 PENNSYLVANIA STATE UNIVERSITY
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
 2017-18

CIP Classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional	Doctor's
Agriculture	\$3,118	\$4,814	\$4,007	\$13,902	-	\$5,860
Architecture and Related Services	6,157	7,969	7,250	20,358	-	4,426
Area, Ethnic, Cultural, and Gender Studies	3,246	8,439	4,079	11,150	-	6,421
Business	3,448	4,992	4,656	5,163	-	11,392
Communications	3,673	4,527	3,971	10,662	-	4,957
Computer and Information Sciences and Support Services	3,760	5,128	4,468	4,827	-	2,822
Personal and Culinary Services						-
Education	8,027	7,543	7,601	6,552	-	8,421
Engineering	5,281	5,755	5,609	9,548	-	6,977
Foreign Languages, Literature, and Linguistics	3,962	4,021	3,991	6,670	-	4,120
Health Professions and Related Clinical Sciences	4,162	4,129	4,137	7,868	-	8,498
Family and Consumer Sciences/ Human Sciences	2,488	4,336	3,462	13,754	-	6,960
Technology Education/Industrial Arts						
Legal Professions and Studies	-	3,804	3,804	5,185	9,858	6,545
English Language and Literature/Letters	3,907	5,517	4,221	9,185	-	2,567
Liberal Arts and Sciences, General Studies and Humanities	9,381	7,795	8,301	38,436	-	15,724
Library Science						
Biological and Biomedical Sciences	3,207	3,407	3,296	14,639	-	8,585
Mathematics and Statistics	2,703	3,400	2,938	2,657	-	4,477
Military Technologies						
Multi/Interdisciplinary Studies	8,941	10,786	9,964	7,439	-	13,798
Parks, Recreation, Leisure, and Fitness Studies	4,019	4,196	4,150	9,696	-	8,552
Personal and Social Development	-	25,836	25,345	-	-	122,277
Philosophy and Religion/Theology	3,688	5,170	3,921	3,933	-	5,655
Physical Sciences	3,706	5,095	3,964	10,979	-	5,969
Psychology	2,814	5,059	3,385	6,958	-	6,753
Security and Protective Services/ Public Administration and Services	3,385	3,847	3,598	3,940	-	3,683
Social Sciences and History	3,213	4,726	3,763	11,108	-	8,856
Trade and Industrial	-	35,746	35,746	-	-	-
Visual and Performing Arts	3,463	4,556	3,937	15,025		4,891
Other						
Total	3,808	4,672	4,218	6,246	9,858	6,302

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.

SOURCE: Data provided by Pennsylvania State University, 2018; CIP classifications as defined in "The Integrated Postsecondary Education Data System (IPEDS) Classification of Instructional Programs (CIP) " <http://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55> U.S. Department of Education, National Center for Education Statistics.

Table 8C
 University of Pittsburgh
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
 2017-18

CIP Classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional	Doctor's
Agriculture						
Architecture and Related Services						
Area, Ethnic, Cultural, and Gender Studies	\$1,022	\$2,467	\$1,795	\$808	-	
Business	3,853	5,031	4,704	4,729	-	39,484
Communications						
Computer and Information Sciences and Support Services	3,511	2,570	3,213	4,178	10,634	25,689
Personal and Culinary Services						
Education	3,749	6,234	4,827	3,445	-	9,536
Engineering	2,092	3,501	2,808	6,990	-	30,916
Foreign Languages, Literature, and Linguistics	4,105	4,731	4,254	7,444	-	36,083
Health Professions and Related Clinical Sciences	3,040	5,290	4,594	6,223	2,143	27,131
Family and Consumer Sciences/ Human Sciences						
Technology Education/Industrial Arts						
Legal Professions and Studies	-	8,268	8,268	29,477	4,848	-
English Language and Literature/Letters	3,546	5,601	3,997	6,545	-	13,861
Liberal Arts and Sciences, General Studies and Humanities						
Library Science	12,256	11,493	12,028	10,699	-	97,230
Biological and Biomedical Sciences	2,413	4,886	3,400	6,445	-	17,853
Mathematics and Statistics	2,753	3,350	2,885	6,492	-	12,058
Military Technologies						
Multi/Interdisciplinary Studies	4,204	6,016	4,801	8,113	-	14,868
Parks, Recreation, Leisure, and Fitness Studies						
Personal and Social Development						
Philosophy and Religion/Theology	3,278	5,478	3,930	16,980	-	-
Physical Sciences	2,818	9,064	3,495	5,659	-	16,298
Psychology	1,577	4,487	2,510	5,964	5,206	31,693
Security and Protective Services/ Public Administration and Services	2,905	3,934	3,670	4,560	7,970	9,122
Social Sciences and History	2,356	5,641	3,457	14,237	-	31,038
Trade and Industrial						
Visual and Performing Arts	3,178	6,331	3,744	11,773	-	33,382
Other						
Total	3,093	4,935	3,755	5,608	2,273	23,590

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.

SOURCE: Data provided by Pittsburgh University, 2018; CIP classifications as defined in "The Integrated Postsecondary Education Data System (IPEDS) Classification of Instructional Programs (CIP) " <http://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55> U.S. Department of Education, National Center for Education Statistics.

Table 8D
 TEMPLE UNIVERSITY
 AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
 BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
 2017-18

CIP Classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional	Doctor's
Agriculture						
Architecture and Related Services	\$2,773	\$4,284	\$3,676	\$6,380	-	-
Area, Ethnic, Cultural, and Gender Studies	1,656	2,381	2,028	6,384	-	6,632
Business	1,992	3,244	2,843	3,091	\$1,152	\$7,394
Communications	2,249	4,081	3,418	8,786	38,663	15,646
Computer and Information Sciences and Support Services	3,789	4,639	4,311	15,528		20,432
Personal and Culinary Services						
Education	2,665	3,774	3,315	5,625	40,631	13,444
Engineering	3,092	3,230	3,179	16,737	-	31,348
Foreign Languages, Literature, and Linguistics	2,319	2,815	2,574	4,272	7,802	-
Health Professions and Related Clinical Sciences	2,558	3,753	3,388	6,862	1,264	5,154
Family and Consumer Sciences/ Human Sciences						
Technology Education/Industrial Arts						
Legal Professions and Studies	3,171	4,279	3,619	5,718	8,337	-
English Language and Literature/Letters	2,743	2,881	2,778	5,306	4,675	-
Liberal Arts and Sciences, General Studies and Humanities						
Library Science						
Biological and Biomedical Sciences	1,555	4,302	3,303	9,887	0	29,852
Mathematics and Statistics	2,320	2,876	2,483	9,829	0	20,071
Military Technologies						
Multi/Interdisciplinary Studies	1,366	1,946	1,659	2,301	-	-
Parks, Recreation, Leisure, and Fitness Studies	1,461	3,319	2,752	5,774	0	8,324
Personal and Social Development						
Philosophy and Religion/Theology	2,729	3,521	3,129	14,543	-	16,623
Physical Sciences	2,644	3,796	3,179	12,115	0	23,561
Psychology	1,979	3,949	3,121	5,717	0	14,131
Security and Protective Services/ Public Administration and Services	2,506	3,401	3,119	3,932	0	10,362
Social Sciences and History	2,013	3,339	2,623	4,295	3,909	8,563
Trade and Industrial						
Visual and Performing Arts	3,382	4,501	3,967	8,358	-	18,983
Other						
Total	2,735	3,640	3,230	4,859	2,457	9,765

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.

SOURCE: Data provided by Temple University, 2018; CIP classifications as defined in "The Integrated Postsecondary Education Data System (IPEDS) Classification of Instructional Programs (CIP)" <http://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55> U.S. Department of Education, National Center for Education Statistics.

Table 8E
STATE-OWNED UNIVERSITIES
AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT¹
BY ACADEMIC DIVISION AND LEVEL AND CIP CLASSIFICATION
2017-18

CIP Classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional	Doctor's
Agriculture	\$2,865	\$4,658	\$3,339	\$12,582	-	-
Architecture and Related Services	-	6,335	6,335	11,496	-	-
Area, Ethnic, Cultural, and Gender Studies	3,391	4,510	3,877	13,642	-	-
Business	2,488	3,721	3,303	4,641	-	\$4,428
Communications	2,859	5,547	3,724	8,809	-	16,305
Computer and Information Sciences and Support Services	3,364	5,511	4,137	9,210	-	-
Personal and Culinary Services						
Education	2,554	5,145	4,214	4,913	\$14,342	9,651
Engineering	4,242	5,807	5,217	3,402	-	9,949
Foreign Languages, Literature, and Linguistics	4,591	7,266	5,056	7,240	-	7,328
Health Professions and Related Clinical Sciences	3,656	4,704	4,350	5,105	16,806	3,984
Family and Consumer Sciences/ Human Sciences	2,668	4,172	3,602	3,964	-	-
Technology Education/Industrial Arts						
Legal Professions and Studies	1,553	4,528	2,370	4,178	-	-
English Language and Literature/Letters	3,893	5,319	4,215	10,038	-	10,129
Liberal Arts and Sciences, General Studies and Humanities	5,429	9,792	6,009	22,429	-	-
Library Science	4,217	5,234	4,671	3,899	-	-
Biological and Biomedical Sciences	2,923	7,587	4,218	20,261	-	-
Mathematics and Statistics	3,254	6,564	3,663	8,596	-	-
Military Technologies	403	789	524	-	-	-
Multi/Interdisciplinary Studies	3,517	8,216	5,037	4,364	-	-
Parks, Recreation, Leisure, and Fitness Studies	25,867	4,497	3,629	3,698	-	11,483
Personal and Social Development	2,978	2,297	2,931	6,091	-	-
Philosophy and Religion/Theology	2,661	5,627	3,119	11,938	-	18,589
Physical Sciences	3,573	10,523	4,661	7,040	-	-
Psychology	2,505	4,698	3,410	6,333	-	12,089
Security and Protective Services/ Public Administration and Services	2,463	3,747	3,226	4,226	6,280	10,508
Social Sciences and History	2,739	6,083	3,643	12,299	-	18,257
Trade and Industrial	23,770	3,396	4,322			
Visual and Performing Arts	3,926	9,274	5,475	12,115	-	-
Other	27,585	41,174	30,809	47,072	-	-
Total	3,065	5,421	3,968	5,878	11,966	8,353

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.

SOURCE: Data provided by the State-related Universities, 2018; CIP classifications as defined in "The Integrated Postsecondary Education Data System (IPEDS) Classification of Instructional Programs (CIP)" <http://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55> U.S. Department of Education, National Center for Education Statistics.

Table 9

AVERAGE CLASS SIZES IN CLASSROOM INSTRUCTION BY ACADEMIC DIVISION AND LEVEL¹
2017-18, CHANGE FROM 2016-17 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (2012-13 to 2017-18)

University	Undergraduate						Total undergraduate			Master's		
	Lower division		Upper division		Total undergraduate		Class size	One-year	Five-year average	Class size	One-year	Five-year average
	Class size	Percent change	Class size	Percent change	Class size	Percent change						
State-related												
Lincoln	21	10%	13	1%	19	9%	13	1%	4%			
Penn State	29	-3	23	-8	25	-7	14	8	-1			
Pittsburgh	29	a	24	a	27	a	16	a	-4			
Temple	33	a	26	-4	29	a	18	6	3			
Total	29	-3	24	a	26	-4	15	a	2			
State-owned												
Bloomsburg	29	-6	18	-5	25	-4	10	-9	-2			
California	32	-3	22	-8	26	-7	19	a	-4			
Cheyney	18	-10	13	a	16	-6	6	-14	-11			
Clarion	24	-4	18	a	21	a	14	a	-2			
East Stroudsburg	34	-3	17	a	26	a	9	11	-5			
Edinboro	26	-7	19	a	23	-4	20	a	5			
Indiana	30	-3	18	-5	25	-4	11	a	-3			
Kutztown	30	a	19	a	24	a	15	a	3			
Lock Haven	24	-4	18	-5	21	-9	22	5	-3			
Mansfield	24	-11	17	-10	20	-5	9	-31	-1			
Millersville	26	a	19	a	23	a	14	8	-3			
Shippensburg	27	-7	18	6	23	-4	9	-10	-3			
Slippery Rock	31	-3	19	6	25	4	15	-12	a			
West Chester	30	-3	19	a	24	a	13	8	2			
Total	29	-1	19	-2	24	-1	14	-3	5			
All universities	29	a	22	a	25	-4	15	a	a			

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

SOURCE: Data provided by the individual universities, 2012 to 2018.

Table 10
ACADEMIC YEAR TUITION AND REQUIRED FEES FOR FULL-TIME STUDENTS BY ACADEMIC LEVEL AND RESIDENCE
2017-18, CHANGE FROM 2016-17 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (2012-13 to 2017-18)

University	Undergraduate						Graduate ¹					
	In-State			Out-of-State			In-State			Out-of-State		
	Tuition and required fees	Percent change One-year	Percent change Five-year average	Tuition and required fees	Percent change One-year	Percent change Five-year average	Tuition and required fees	Percent change One-year	Percent change Five-year average	Tuition and required fees	Percent change One-year	Percent change Five-year average
State-related												
Lincoln	\$11,379	2%	3%	\$17,151	2%	3%	\$11,379	2%	3%	\$17,151	2%	3%
Penn State ²	18,436	3	2	33,664	4	3	21,752	4	3	36,606	4	3
Pittsburgh ²	19,080	2	3	30,642	3	3	22,060	-2	2	35,744	-3	2
Temple	16,658	2	4	28,418	4	4	17,054	3	a	23,048	3	a
Average	16,388	3	3	27,469	4	3	18,120	2	2	28,636	3	2
State-owned												
Bloomsburg	10,500	3	5	21,980	3	4	14,654	3	9	20,654	3	9
California	10,840	5	3	15,326	4	2	16,203	4	9	22,203	4	9
Cheyney	12,104	27	7	17,452	a	6	13,988	17	11	19,998	16	10
Clarion	10,890	4	4	15,636	3	4	17,258	-26	3	23,258	3	10
East Stroudsburg	10,098	2	3	21,778	25	4	14,808	5	9	20,804	4	9
Edinboro	10,282	6	4	14,668	38	5	11,557	3	9	16,057	3	7
Indiana	12,119	7	7	17,271	-23	-2	16,073	11	11	22,073	9	10
Kutztown	9,987	4	3	13,975	-33	-4	10,847	3	3	15,347	3	3
Lock Haven	10,576	3	4	20,056	4	4	15,417	3	9	21,417	3	9
Mansfield	12,316	3	7	22,008	3	3	14,230	4	9	20,230	4	9
Millersville ³	11,858	3	7	21,560	3	3	15,402	3	10	21,402	3	10
Shippensburg	12,086	6	6	20,186	3	3	15,480	3	10	21,480	3	10
Slippery Rock	10,205	3	3	14,193	3	3	15,907	4	9	21,907	3	10
West Chester	10,111	4	3	21,591	4	3	15,121	8	9	21,121	7	10
Average	10,998	4	5	18,406	a	2	14,782	5	9	20,568	5	9

1. Excludes first-professional level.

2. Main campus data only.

3. Effective fall 2014, in-state undergraduate tuition for Millersville is charged per credit. The tuition listed reflects a 30 credit year.

SOURCE: Pennsylvania Department of Education, National Center for Education Statistics.

Table 11
TUITION AND FEE REVENUES RELATED TO FULL-TIME EQUIVALENT STUDENTS¹
2017-18, CHANGE FROM 2016-17 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (2012-13 to 2017-18)

University	Total tuition and fee revenues			Tuition and fee revenues per FTE student				
	Amount	Percent change		Amount	One-Year change	Percent change		
		One-year	Five-year average			One-year	Five-year average	
State-related								
Lincoln	\$29,441	11%	4%	\$13,742	-\$198	-1%	-1%	
Penn State	1,860,122	2	4	20,603	505	3	3	
Pittsburgh	767,300	3	3	22,825	822	4	3	
Temple	946,101	5	8	25,314	1,133	5	6	
Total	3,602,994	3	5	22,048	699	3	4	
State-owned								
Bloomsburg	100,798	-2	1	11,440	257	2	3	
California	80,905	2	-1	11,632	721	7	2	
Cheyney	8,044	1	-8	11,336	992	10	3	
Clarion	50,914	1	-4	11,536	592	5	2	
East Stroudsburg	70,733	1	-2	11,374	-343	-3	-2	
Edinboro	59,037	-3	-2	11,369	629	6	3	
Indiana	143,673	-1	a	12,626	477	4	5	
Kutztown	82,384	a	a	10,459	261	3	4	
Lock Haven	40,755	-7	-3	10,911	337	3	3	
Mansfield	19,909	-13	-8	10,787	-129	-1	a	
Millersville	84,134	2	3	12,249	344	3	5	
Shippensburg	68,261	-4	-1	11,633	426	4	3	
Slippery Rock	96,628	4	5	10,616	369	4	4	
West Chester	180,810	9	7	12,080	1089	10	3	
Total	1,086,985	a	a	11,596	480	4	2	
All universities	4,689,980	2	3	18,238	710	4	4	

1. Tuition and fee revenues are based on collections by the individual universities. FTE students include in-State and out-of-State undergraduate and graduate students. Excludes medical school data.

a. Rounds to less than 1 percent.

SOURCE: Tuition and fee revenues - data provided by the individual State-related universities and the Pennsylvania State System of Higher Education, 2012 to 2018; FTE students - data provided by the individual universities, 2012 to 2018..

Table 12

COMMONWEALTH INSTRUCTIONAL APPROPRIATIONS RELATED TO FULL-TIME EQUIVALENT STUDENTS¹
2017-18, CHANGE FROM 2016-17 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (2012-13 TO 2017-18)

University	Total instructional appropriations			Instructional appropriations per FTE student			
	Amount	Percent change		Amount	One-Year change	Percent change	
		One-year	Five-year average			One-year	Five-year average
State-related							
Lincoln	\$14,436	a	6%	\$6,738	-\$842	-11%	5%
Penn State	230,436	a	2	2,552	12	a	a
Pittsburgh	152,851	2%	3	4,547	310	7	3
Temple	150,586	a	2	4,029	-15	a	a
Total	548,309	2	2	3,355	64	2	1
State-owned							
Bloomsburg	36,153	a	2	4,103	167	4	3
California	32,486	3	1	4,671	358	8	5
Cheyney	12,634	-2	a	17,805	965	6	12
Clarion	24,950	a	2	5,653	240	4	7
East Stroudsburg	27,030	4	5	4,347	-33	-1	4
Edinboro	26,714	2	1	5,144	515	11	6
Indiana	53,902	1	a	4,737	283	6	6
Kutztown	35,559	a	1	4,634	121	3	4
Lock Haven	24,956	2	5	6,681	732	12	12
Mansfield	16,752	3	a	9,076	1,267	16	8
Millersville	33,794	4	2	4,920	252	5	4
Shippensburg	29,919	1	1	5,099	414	9	5
Slippery Rock	37,823	4	3	4,155	133	3	2
West Chester	55,283	4	3	3,694	294	9	1
Total ²	447,954	2	2	4,779	274	6	5
All universities ²	996,263	2	2	3,874	130	3	2

1. Instructional appropriations include educational and general appropriations. FTE students include in-State and out-of-State undergraduate and graduate students. Excludes medical school data.

2. Excludes amount of instructional appropriations allocated to Office of the Chancellor and the System Reserve of the Pennsylvania State System of Higher Education.

a. Rounds to less than 1 percent.

SOURCE: Instructional appropriations - Governor's Executive Budget, 2012-13 to 2017-18; data provided by the individual State-related universities and the Pennsylvania State System of Higher Education, 2012 to 2018. FTE students- data provided by the individual universities, 2012 to 2018.

Table 13

TUITION AND FEE REVENUES, COMMONWEALTH INSTRUCTIONAL APPROPRIATIONS AND STUDENT AID
RELATED TO FULL-TIME EQUIVALENT STUDENTS¹
2017-18, CHANGE FROM 2016-17 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (2012-13 to 2017-18)

University	Per FTE student			Ratio of instructional appropriations to total instructional revenues		
	Tuition and Fee Revenues	Instructional Appropriations	Total Instructional Revenues	Percent	Percentage change	
					One-year	Five-year average
State-related						
Lincoln	\$13,742	\$6,738	\$20,481	33%	-7%	2%
Penn State	20,603	2,552	23,156	11	-2	-2
Pittsburgh	22,825	4,547	27,372	17	3	a
Temple	25,314	4,029	29,343	14	3	-1
Average	22,048	3,355	25,403	13	-1	-2
State-owned						
Bloomsburg	11,440	4,103	15,543	26	1	a
California	11,632	4,671	16,303	29	1	2
Cheyney	11,336	17,805	29,141	61	-1	3
Clarion	11,536	5,653	17,188	33	-1	4
East Stroudsburg	11,374	4,347	15,721	28	2	5
Edinboro	11,369	5,144	16,514	31	3	2
Indiana	12,626	4,737	17,363	27	2	1
Kutztown	10,735	4,634	15,369	30		2
Lock Haven	10,911	6,681	17,592	38	5	6
Mansfield	10,787	9,076	19,863	46	10	5
Millersville	12,249	4,920	17,169	29	2	a
Shippensburg	11,633	5,099	16,732	30	3	2
Slippery Rock	10,616	4,155	14,771	28	a	-1
West Chester	12,080	3,694	15,774	23	-1	-1
Average ³	11,422	4,779	16,201	29	3	2
All universities ³	20,433	3,874	24,307	16	-1	-1

1. Tuition and fee revenues are based on collections by the individual universities. Instructional appropriations include educational and general appropriations. FTE students include in-State and out-of-State undergraduate and graduate students. Excludes medical schools.

2. Instructional appropriations exclude amount allocated to Office of the Chancellor and the System Reserve of the Pennsylvania State System of Higher Education.

a. Rounds to less than 1 percent.

SOURCE: Tuition and fee revenues - State-owned data provided by the Pennsylvania State System of Higher Education; State-related data provided by the individual universities.

NOTE: Student Aid Per FTE has been omitted from the report due to misrepresentation of financial aid disbursement per FTE

HISTORICAL DATA TABLES

Historical Table 1

FULL-TIME EQUIVALENT STUDENTS BY ACADEMIC LEVEL¹
2012-13 to 2017-18

University	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
State-related						
Lincoln						
Total	1,985	1,870	1,753	1,792	1,904	2,141
Undergraduate	1,615	1,558	1,536	1,602	1,693	1,912
Graduate	370	313	217	190	212	230
Penn State						
Total	83,801	85,004	86,760	87,856	90,717	90,283
Undergraduate	75,655	76,688	78,267	79,183	81,586	80,683
Graduate	8,146	8,316	8,493	8,673	9,131	9,600
Pittsburgh						
Total	34,238	34,153	34,264	33,988	33,840	33,617
Undergraduate	24,749	24,986	25,235	25,221	25,444	25,377
Graduate	9,489	9,167	9,029	8,767	8,396	8,240
Temple						
Total	34,290	34,611	34,639	35,066	37,236	37,374
Undergraduate	27,169	27,540	27,726	28,296	29,574	30,066
Graduate	7,121	7,071	6,914	6,770	7,662	7,308
State-owned						
Bloomsburg						
Total	9,528	9,644	9,504	9,319	9,209	8,811
Undergraduate	8,860	9,053	8,947	8,781	8,654	8,230
Graduate	668	591	557	538	555	581
California						
Total	8,102	7,853	7,606	7,457	7,294	6,955
Undergraduate	6,265	6,084	5,741	5,445	5,329	5,103
Graduate	1,837	1,769	1,865	2,011	1,965	1,852
Cheyney						
Total	1,248	1,161	1,030	721	767	710
Undergraduate	1,209	1,140	1,017	698	731	674
Graduate	39	21	13	23	36	36
Clarion						
Total	5,944	5,377	4,805	4,575	4,615	4,414
Undergraduate	5,237	4,805	4,305	4,026	4,022	3,808
Graduate	707	572	500	549	594	606
East Stroudsburg						
Total	6,030	6,280	6,148	6,155	5,959	6,219
Undergraduate	5,562	5,794	5,672	5,656	5,490	5,712
Graduate	468	486	476	499	469	507
Edinboro						
Total	6,630	6,243	6,028	5,915	5,665	5,193
Undergraduate	5,654	5,402	5,116	4,929	4,601	4,114
Graduate	976	841	911	986	1,063	1,079
Indiana						
Total	14,493	13,917	13,554	12,990	11,969	11,379
Undergraduate	12,871	12,399	12,002	114,229	10,438	9,912
Graduate	1,622	1,519	1,551	1,561	1,531	1,468
Kutztown						
Total	9,091	8,862	8,623	8,366	7,896	7,674
Undergraduate	8,716	8,431	8,186	7,885	7,377	7,124
Graduate	375	430	438	480	518	551
Lock Haven						
Total	5,199	5,121	4,775	4,488	4,128	3,735
Undergraduate	4,797	4,870	4,332	4,046	3,687	3,303
Graduate	402	436	443	442	441	432
Mansfield						
Total	2,774	2,698	2,515	2,241	2,090	1,846
Undergraduate	2,643	2,584	2,436	2,177	2,043	1,813
Graduate	131	114	78	64	48	33
Millersville						
Total	7,687	7,485	7,222	7,080	6,953	6,869
Undergraduate	7,052	6,889	6,631	6,481	6,364	6,229
Graduate	635	596	590	599	589	639
Shippensburg						
Total	7,062	6,884	6,618	6,431	6,332	5,868
Undergraduate	6,478	6,288	6,010	5,792	5,692	5,297
Graduate	584	596	609	639	641	571
Slippery Rock						
Total	8,677	8,541	8,680	8,752	9,040	9,102
Undergraduate	7,927	7,727	7,723	7,729	7,836	7,803
Graduate	750	814	957	1,023	1,204	1,299
West Chester						
Total	14,543	14,796	15,124	15,421	15,604	14,967
Undergraduate	13,137	13,336	13,558	13,801	13,848	13,362
Graduate	1,406	1,460	1,566	1,620	1,756	1,605

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. In addition to master's level, graduate for Penn State, Pittsburgh, Temple, Bloomsburg, East Stroudsburg, Indiana, Slippery Rock, and West Chester includes first-professional (excluding medical schools) and/or doctor's levels.

SOURCE: Data provided by the individual universities, 2012 to 2018.

Historical Table 2

STUDENT CREDIT HOURS BY ACADEMIC DIVISION AND LEVEL¹
TOTAL YEAR AND SUMMER 2012-13 to 2017-18
(in thousands)

University	Total Year						Summer		Grand Total		
	Lower division	Upper division	Total under-graduate	Master's	First Professional	Doctor's	Total graduate	Grand Total		Total under-graduate	Total graduate
State-related											
Lincoln											
2012-13	36	13	49	na	na	na	9	58	1	1	2
2013-14	35	11	46	na	na	na	8	54	a	a	1
2014-15	33	13	46	na	na	na	5	51	a	a	1
2015-16	36	12	48	na	na	na	5	53	a	a	1
2016-17	39	12	51	na	na	na	5	56	a	a	1
2017-18	44	13	57	na	na	na	6	63	a	1	1
Penn State											
2012-13	1,219	1,050	2,269	100	17	79	196	2,465	138	19	157
2013-14	1,233	1,068	2,301	91	16	93	200	2,501	142	20	162
2014-15	1,257	1,091	2,348	94	16	94	204	2,552	145	20	165
2015-16	1,240	1,136	2,376	98	17	93	208	2,584	153	20	173
2016-17	1,285	1,163	2,448	116	18	85	219	2,667	153	22	175
2017-18	1,273	1,147	2,420	124	18	89	230	2,651	164	28	192
Pittsburgh											
2012-13	487	255	742	149	57	22	228	970	37	32	69
2013-14	490	259	749	144	53	22	219	968	38	31	69
2014-15	492	265	757	143	52	22	217	974	39	29	68
2015-16	494	262	756	139	52	22	210	966	38	28	66
2016-17	494	269	763	135	45	21	202	965	38	27	65
2017-18	488	274	761	128	47	23	198	959	38	27	65
Temple											
2012-13	356	459	815	72	74	25	171	986	46	21	67
2013-14	365	461	826	74	72	25	171	997	46	22	68
2014-15	370	462	832	72	70	24	166	998	45	22	67
2015-16	383	466	849	79	59	24	162	1,011	48	23	71
2016-17	408	479	887	91	68	25	184	1,071	46	23	69
2017-18	408	493	902	87	56	23	175	1,077	40	21	61
State-owned											
Bloomsburg											
2012-13	192	74	266	na	na	2	16	282	17	5	22
2013-14	194	77	271	1	na	1	14	285	16	4	20
2014-15	192	76	268	1	na	1	13	281	15	5	20
2015-16	188	75	263	1	na	1	13	276	14	4	18
2016-17	183	77	260	2	na	2	14	274	14	3	17
2017-18	170	77	247	2	na	2	14	261	12	4	15
California											
2012-13	101	87	188	na	na	na	44	232	12	14	26
2013-14	102	81	183	na	na	na	43	226	11	13	24
2014-15	95	78	173	na	na	na	45	218	10	13	23
2015-16	87	76	163	na	na	na	48	211	10	14	24
2016-17	82	78	160	na	na	na	47	207	12	14	26
2017-18	79	74	153	na	na	na	44	198	11	13	24
Cheyney											
2012-13	23	13	36	1	na	na	1	37	1	a	1
2013-14	21	14	34	a	na	na	a	34	1	a	1
2014-15	20	11	31	na	na	na	a	31	1	a	1
2015-16	12	9	21	na	na	na	1	22	a	a	a
2016-17	13	9	22	na	na	na	1	23	1	a	1
2017-18	12	8	21	na	na	na	1	21	a	a	1
Clarion											
2012-13	111	53	164	na	na	na	18	182	10	5	15
2013-14	94	50	144	na	na	na	14	158	9	4	13
2014-15	84	46	130	na	na	na	12	142	8	3	11
2015-16	76	45	121	na	na	na	13	134	8	3	11
2016-17	75	45	121	na	na	na	14	135	7	3	10
2017-18	70	44	114	na	na	na	15	129	6	3	10
East Stroudsburg											
2012-13	112	55	167	na	na	a	11	178	6	3	9
2013-14	116	58	174	na	na	a	11	185	12	4	16
2014-15	113	57	170	na	na	a	11	181	11	a	11
2015-16	112	57	169	na	na	a	12	181	6	2	8
2016-17	112	53	165	na	na	a	11	176	6	2	9
2017-18	113	59	171	na	na	a	12	184	7	3	10

STUDENT CREDIT HOURS BY ACADEMIC DIVISION AND LEVEL¹
TOTAL YEAR AND SUMMER 2012-13 to 2017-18
(in thousands)

University	Total Year						Summer		Grand Total		
	Lower division	Upper division	Total under-graduate	Master's	First Professional	Doctor's	Total graduate	Grand Total		Total under-graduate	Total graduate
Edinboro	105	65	170	na	23	na	23	193	8	6	14
2012-13	99	64	163	na	20	na	20	183	7	5	12
2013-14	96	58	154	na	22	na	22	176	6	5	11
2014-15	94	54	148	na	24	na	24	172	6	6	12
2015-16	87	51	138	na	26	na	26	164	6	7	12
2016-17	73	49	123	na	25	na	26	149	5	7	16
2017-18	263	123	386	na	23	na	39	425	24	10	34
Indiana	252	121	373	na	25	na	40	413	23	9	32
2012-13	242	118	360	na	28	na	38	398	23	9	32
2013-14	229	114	343	na	29	na	37	380	22	10	32
2014-15	203	110	313	na	28	na	37	350	21	9	30
2015-16	194	103	297	na	28	na	35	332	19	10	29
2016-17	146	116	262	na	9	na	9	271	8	2	10
2017-18	138	115	253	na	10	na	10	263	8	2	10
Kutztown	131	114	245	na	11	na	11	256	8	2	10
2012-13	126	111	237	na	12	na	12	249	7	2	9
2013-14	117	104	221	na	12	na	12	234	7	2	9
2014-15	110	104	214	na	13	na	13	227	7	2	9
2015-16	103	41	144	na	10	na	10	154	8	2	10
2016-17	99	42	141	na	10	na	10	151	6	3	9
2017-18	90	40	130	na	11	na	11	141	7	3	10
Lock Haven	81	na	121	na	11	na	11	132	6	3	9
2012-13	74	37	110	na	11	na	11	122	6	3	9
2013-14	69	30	99	na	10	na	10	109	5	3	8
2014-15	45	35	80	na	3	na	3	83	4	1	5
2015-16	45	33	78	na	3	na	3	81	4	a	4
2016-17	40	33	73	na	2	na	2	75	4	1	5
2017-18	35	31	66	na	2	na	2	68	3	a	3
Mansfield	31	30	61	na	1	na	1	62	3	a	4
2012-13	28	26	54	na	1	na	1	55	3	a	3
2013-14	128	84	212	na	15	na	15	227	12	5	17
2014-15	126	81	207	na	14	na	14	221	11	4	15
2015-16	122	78	200	na	14	na	14	214	11	4	15
2016-17	118	77	195	na	14	na	14	209	12	4	16
2017-18	115	76	191	na	14	na	14	205	13	4	17
Shippensburg	114	74	187	na	15	na	15	202	13	4	17
2012-13	131	63	194	na	14	na	14	208	9	3	12
2013-14	128	61	189	na	14	na	14	203	8	3	11
2014-15	124	57	181	na	15	na	15	196	8	3	11
2015-16	119	55	174	na	15	na	15	189	8	3	11
2016-17	116	55	171	na	15	na	15	186	8	3	11
2017-18	106	53	159	na	14	na	14	173	8	3	11
Slippery Rock	144	94	238	na	12	na	18	256	15	5	20
2012-13	138	94	232	na	14	na	20	252	14	5	19
2013-14	139	93	232	na	17	na	23	255	14	5	19
2014-15	141	91	232	na	18	na	24	256	14	7	21
2015-16	143	92	235	na	22	na	29	264	15	8	22
2016-17	142	93	234	na	24	na	31	265	14	8	22
2017-18	242	152	394	na	34	na	34	428	20	6	26
West Chester	245	155	400	na	35	na	35	435	21	6	27
2012-13	248	159	407	na	37	na	37	444	21	6	27
2013-14	253	161	414	na	38	na	39	453	21	7	28
2014-15	251	164	415	na	40	na	42	458	19	7	26
2015-16	245	156	401	na	37	na	39	439	20	7	26

1. Data for each year represent the summer term preceding the academic year plus the academic year. The first-professional levels excludes medical school data.
a. Rounds to less than one thousand student credit hours.
na. Not applicable.

SOURCE: Data provided by the individual universities, 2012 to 2018.

Historical Table 3

DEGREES CONFERRED¹
2012-13 to 2017-18

University	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
State-related						
Lincoln						
Total	452	439	362	383	405	384
Bachelor's	297	279	263	286	279	259
Graduate	155	160	99	97	126	125
Penn State						
Total	18,548	19,685	19,485	19,900	20,576	21,446
Bachelor's	15,009	15,924	15,616	15,934	16,299	17,089
Graduate	3,539	3,761	3,869	3,966	4,277	4,357
Pittsburgh						
Total	8,491	8,741	9,033	8,972	9,157	9,048
Bachelor's	5,354	5,414	5,530	5,411	5,533	5,655
Graduate	3,137	3,327	3,503	3,561	3,624	3,393
Temple						
Total	8,519	8,623	8,642	8,760	9,103	9,718
Bachelor's	6,075	6,151	6,152	6,277	6,456	6,472
Graduate	2,444	2,472	2,490	2,483	2,647	3,246
State-owned						
Bloomsburg						
Total	2,074	2,175	2,234	1,981	2,090	2,076
Bachelor's	1,704	1,869	1,926	1,709	1,838	1,817
Graduate	370	306	308	272	252	259
California						
Total	2,456	2,488	2,363	2,332	2,633	2,344
Bachelor's	1,470	1,510	1,411	1,368	1,378	1,379
Graduate	986	978	952	964	1,099	965
Cheyney						
Total	183	163	149	167	194	175
Bachelor's	162	153	140	154	148	151
Graduate	21	10	9	13	46	24
Clarion						
Total	1,424	1,447	1,197	1,205	1,213	1,240
Bachelor's	928	1,050	878	913	873	882
Graduate	496	397	319	292	340	358
East Stroudsburg						
Total	1,524	1,497	1,534	1,523	1,515	1,487
Bachelor's	1,240	1,290	1,306	1,261	1,272	1,234
Graduate	284	207	228	262	243	253
Edinboro						
Total	1,576	1,576	1,433	1,359	1,378	1,285
Bachelor's	1,057	1,115	1,021	961	919	842
Graduate	519	461	412	398	459	443
Indiana						
Total	3,165	3,158	3,122	3,239	3,057	2,969
Bachelor's	2,470	2,412	2,566	2,443	2,270	2,221
Graduate	695	746	556	796	787	748
Kutztown						
Total	2,113	1,991	2,159	2,105	1,949	1,811
Bachelor's	1,882	1,750	1,906	1,850	1,733	1,530
Graduate	231	241	253	255	216	281
Lock Haven						
Total	971	1,046	1,050	1,077	1,059	970
Bachelor's	845	891	895	923	883	809
Graduate	126	155	155	154	176	161
Mansfield						
Total	682	616	620	540	497	521
Bachelor's	559	534	557	481	454	485
Graduate	123	82	63	59	43	36
Millersville						
Total	1,718	1,780	1,679	1,702	1,784	1,632
Bachelor's	1,450	1,535	1,429	1,453	1,498	1,367
Graduate	268	245	250	249	286	265
Shippensburg						
Total	1,810	1,720	1,592	1,573	1,666	1,554
Bachelor's	1,459	1,421	1,251	1,203	1,292	1,188
Graduate	351	299	341	370	374	366
Slippery Rock						
Total	2,173	2,043	2,090	2,093	2,190	2,243
Bachelor's	1,846	1,727	1,751	1,672	1,760	1,763
Graduate	327	316	339	421	430	480
West Chester						
Total	3,691	3,973	4,076	4,131	4,527	4,559
Bachelor's	2,973	3,232	3,383	3,407	3,730	3,671
Graduate	718	741	693	724	797	888

1. Data for each year represent the summer term preceding the academic year plus the academic year. Graduate include master's at all universities, first professional (excluding medical schools) at Penn State, Pittsburgh and Temple, and doctor's at Penn State, Pittsburgh, Temple, Bloomsburg, Indiana, Slippery Rock, and West Chester.

Source: Data provided by the individual universities, 2012 to 2018.

Historical Table 4
 NUMBER AND AVERAGE WEEKLY STUDENT CONTACT HOURS OF FULL-TIME EMPLOYED FACULTY BY ACADEMIC LEVEL¹
 FALL 2012 to FALL 2017

University	Full-time employed faculty ²						Undergraduate						Graduate					
	Average weekly student contact hours						Average weekly student contact hours						Average weekly student contact hours					
	2012	2013	2014	2015	2016	2017	2012	2013	2014	2015	2016	2017	2012	2013	2014	2015	2016	2017
State-related																		
Lincoln	100	94	82	98	96	100	10	10.3	9.0	10.2	10.6	11.3	0.4	1.2	1.4	1.3	1.0	0.5
Penn State	3,879	3,900	4,030	4,119	4,276	4,246	11.5	10.2	10.1	9.8	9.6	9.7	3.0	2.8	2.8	2.8	2.8	2.8
Pittsburgh	2,022	2,033	2,051	2,005	2,068	2,042	5	5.1	4.9	5.1	4.8	4.0	2.5	2.5	2.6	2.6	2.4	2.3
Temple	1,333	1,343	1,327	1,342	1,478	1,401	5.5	5.5	5.2	5.1	5.2	5.3	3.6	3.5	2.6	2.6	2.5	2.5
Total	7,334	7,370	7,490	7,564	7,918	8,589	8.5	7.9	7.7	7.7	7.6	7.1	2.9	2.8	2.7	2.7	2.6	2.6
State-owned																		
Bloomsburg	416	445	441	435	408	413	11.4	11.1	11.1	11.6	11.6	11.2	1.1	1.0	1.0	1.1	1.1	1.0
California	270	233	167	101	277	270	8.1	10.3	10.2	10.5	10.2	10.4	1.6	1.7	2.1	1.7	2.0	1.9
Cheyney	60	57	55	40	45	46	9.2	10.2	8.8	9.2	8.8	8.8	0.8	0.5	0.2	0.7	0.6	0.5
Clarion	235	328	211	235	198	198	9.0	9.9	9.6	9.2	9.9	10.0	1.5	1.2	1.5	1.4	2.1	1.6
East Stroudsburg	290	280	163	310	289	377	11.5	16.1	10.4	12.1	11.5	9.1	1.9	1.6	1.6	1.6	2.0	1.4
Edinboro	309	265	257	246	228	131	9.8	11.9	11.4	10.7	10.5	10.8	1.8	2.0	2.4	2.4	2.0	2.1
Indiana	674	664	667	647	633	597	9.6	9.5	9.7	9.3	9.4	8.7	1.9	1.8	1.8	1.9	1.8	1.6
Kutztown	448	437	418	415	419	412	9.5	9.9	10.8	9.9	9.1	8.7	0.6	0.7	0.8	0.8	0.7	0.9
Lock Haven	245	251	229	232	219	174	10.5	10.4	10.1	10.0	10.5	10.2	0.6	0.6	0.7	0.8	0.8	0.9
Mansfield	133	166	141	167	128	157	16.4	18.9	19.2	17.3	19.2	10.2	0.9	1.6	1.0	1.0	0.8	0.9
Millersville	309	310	316	322	317	255	10.5	10.5	10.7	10.3	10.3	10.2	0.9	0.9	1.0	1.0	1.3	1.1
Shippensburg	327	338	326	293	276	321	9.1	8.9	9.1	9.3	8.6	8.7	0.9	1.0	1.0	0.9	0.8	0.8
Slippery Rock	379	376	354	371	379	355	10.9	11.4	11	10.6	11.2	10.1	0.9	0.9	1.0	1.2	1.6	1.7
West Chester	549	600	621	650	671	599	10.6	10.6	10.7	10.7	10.7	10.5	1.7	1.8	1.8	2.0	2.1	2.0
Total	4,644	4,750	4,366	4,086	4,487	3,927	10.5	11.0	10.7	10.6	10.5	10.8	1.4	1.3	1.4	1.4	1.5	1.5
All Universities	12,021	11,978	12,120	11,856	11,700	12,516	9.4	9.1	8.7	8.7	8.6	8.3	2.2	2.2	2.2	2.2	2.2	2.2

1. Averages calculated for the full-time employed faculty who reported complete workweeks of 100 hours or less for the fall term.

2. The number of full-time employed faculty represents those reported by each university for the fall term.

SOURCE: Data provided by the individual universities, 2012 to 2017.

Historical Table 5

NUMBER AND AVERAGE INSTRUCTIONAL SALARIES OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY BY RANK 1
2007-18, CHANGE FROM 2016-17 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (2012-13 to 2017-18)

University	FTE Instructional Faculty		All faculty	Professor	Associate Professor	Average instructional salaries		Intersect	Normed ²
	Assistant Professor	Assistant Professor							
State-related									
Lincoln									
2012-13	111	113.7	61.5		79.4	79.2	70.9	53.6	
2013-14	171	76.0	41.2		66.0	55.0	13.1	46.9	
2014-15	112	68.8	57.3		62.8	56.1	19.8	40.4	
2015-16	153	88.9	52.6		64.8	54.1	20.7	51.1	
2016-17	155	87.2	48.3		69.1	58.5	19.9	52.9	
2017-18	164	92.9	51.2		68.6	65.0	21.4	59.1	
Penn State									
2012-13	6,362	115.4	72.7		82.8	71.1	50.0	62.4	
2013-14	4,808	122.6	74.2		86.8	73.6	52.3	54.5	
2014-15	4,907	127.3	76.1		87.3	74.4	53.1	56.2	
2015-16	4,974	130.4	78.4		90.5	76.9	55.5	58.1	
2016-17	4,977	133.0	80.3		92.4	77.7	56.3	59.5	
2017-18	4,906	136.2	82.5		95.6	81.3	59.6	64.7	
Pittsburgh									
2012-13	2,091	120.2	58.8		75.9	60.2	32.1	47.6	
2013-14	2,112	115.8	64.8		74.5	61.1	46.7	50.0	
2014-15	2,122	118.8	68.4		76.3	61.7	32.9	52.5	
2015-16	2,188	119.1	65.3		77.7	63.0	33.2	53.3	
2016-17	2,193	122.1	69.4		77.9	64.2	35.3	58.3	
2017-18	2,213	128.5	64.6		78.4	65.8	36.2	50.9	
Temple									
2012-13	1,828	120.2	69.8		84.3	59.5	40.2	43.6	
2013-14	1,849	135.1	68.9		85.1	58.1	38.1	46.9	
2014-15	1,857	128.5	59.6		80.5	44.8	31.6	32.5	
2015-16	1,876	121.0	52.6		76.0	38.2	26.5	18.2	
2016-17	1,920	120.8	47.2		70.4	29.2	21.6	13.2	
2017-18	1,929	121.9	68.3		84.2	60.5	41.8	46.6	
State-owned									
Blomberg									
2012-13	469	88.7	68.7		78.4	59.9	46.3	na	
2013-14	477	70.3	70.3		78.5	62.0	46.2	na	
2014-15	480	71.7	71.7		79.6	63.0	46.4	na	
2015-16	481	72.0	72.0		78.3	62.3	46.4	na	
2016-17	478	74.5	74.5		81.0	65.4	48.2	na	
2017-18	479	75.1	75.1		82.0	65.4	48.9	na	
California									
2012-13	344	107.8	75.3		85.5	71.8	46.4	70.4	
2013-14	345	102.2	77.4		81.8	66.6	47.9	40.0	
2014-15	362	106.6	79.7		83.7	67.7	48.1	86.5	
2015-16	354	103.1	63.2		73.5	58.3	43.4	6.6	
2016-17	347	103.1	77.2		79.7	66.4	43.4	68.7	
2017-18	340	102.5	78.2		82.6	69.8	50.7	68.2	
Cheyney									
2012-13	132	101.9	74.4		72.6	63.5	59.4	na	
2013-14	250	26.4	21.0		19.3	17.5	20.1	21.6	
2014-15	74	52.2	52.2		57.7	45.0	33.4	45.7	
2015-16	59	58.3	58.3		70.5	51.0	33.6	na	
2016-17	60	67.7	67.7		75.4	45.2	59.7	na	
2017-18	67	88.8	72.1		90.8	67.8	41.8	na	
Clarens									
2012-13	333	92	71		74	62	48	na	
2013-14	287	102	77		80	71	52	na	
2014-15	251	101	78		87	72	55	na	
2015-16	239	105	79		82	66	40	na	
2016-17	250	105	79		84	72	50	na	
2017-18	246	104	77		82	70	50	na	
East Stroudsburg									
2012-13	301	103	74		78	66	46	na	
2013-14	300	106	77		79	73	37	na	
2014-15	265	126	96		94	79	76	104	
2015-16	325	76	66		84	62	46	na	
2016-17	344	66	66		62	52	20.5	48	
2017-18	437	84	61		64	48	38	5	

NUMBER AND AVERAGE INSTRUCTIONAL SALARIES OF FULL-TIME EQUIVALENT INSTRUCTIONAL FACULTY BY RANK¹
2017-18, CHANGE FROM 2016-17 AND FIVE-YEAR AVERAGE ANNUAL RATE OF CHANGE (2012-13 to 2017-18)

University	FTE Instructional Faculty		Average instructional salaries					Norm ²
	All faculty	Professor	Assistant Professor	Associate Professor	Instructor	Nonrank ²		
Edinboro								
2012-13	379	96	78	65	44	na		
2013-14	382	99	78	63	42	na		
2014-15	384	105	87	67	45	47		
2015-16	376	103	80	62	43	na		
2016-17	357	114	86	70	44	na		
2017-18	350	112	84	69	45	na		
Indiana								
2012-13	71	119	91	60	47	na		
2013-14	696	112	86	60	50	58		
2014-15	695	104	85	62	47	47		
2015-16	692	93	80	62	46	44		
2016-17	637	96	84	65	47	46		
2017-18	629	102	83	65	51	48		
Kutztown								
2012-13	664	88	68	51	40	na		
2013-14	647	44	58	75	94	na		
2014-15	453	98	75	59	41	na		
2015-16	453	95	75	57	45	46		
2016-17	450	97	78	58	49	76		
2017-18	441	95	80	59	47	72		
Lock Haven								
2012-13	327	103	87	77	60	na		
2013-14	248	98	81	66	47	na		
2014-15	236	100	83	66	44	na		
2015-16	230	100	81	66	47	na		
2016-17	229	79	80	60	54	na		
2017-18	221	100	84	64	53	na		
Mansfield								
2012-13	156	100	83	65	51	na		
2013-14	278	59	46	37	27	na		
2014-15	272	43	35	30	25	62		
2015-16	256	40	40	29	19	na		
2016-17	244	32	37	27	21	17		
2017-18	223	51	38	28	23	na		
Millersville								
2012-13	395	95	78	59	44	na		
2013-14	393	96	78	60	44	na		
2014-15	397	100	80	63	45	na		
2015-16	395	99	79	62	46	na		
2016-17	404	101	82	64	46	na		
2017-18	388	101	83	64	44	na		
Shippensburg								
2012-13	378	102	82	68	45	na		
2013-14	369	98	79	66	43	na		
2014-15	359	103	85	70	46	na		
2015-16	345	100	82	68	44	na		
2016-17	352	104	85	70	46	na		
2017-18	347	102	85	70	45	na		
Shippery Rock								
2012-13	396	97	74	70	55	na		
2013-14	384	100	77	72	55	na		
2014-15	399	100	72	68	57	59		
2015-16	400	96	72	71	33	38		
2016-17	413	100	72	71	57	46		
2017-18	415	100	74	67	55	97		
West Chester								
2012-13	775	100	83	69	45	na		
2013-14	796	98	79	66	44	51		
2014-15	821	91	72	60	45	24		
2015-16	843	99	81	67	46	31		
2016-17	861	89	72	60	45	45		
2017-18	857	99	80	68	47	24		

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

2. The full-time equivalency of nonranked faculty members is based on the time spent in instruction by all nonranked personnel, including lecturers, administrators, librarians, research staff, graduate assistants and volunteers. na: Not applicable

SOURCE: Data provided by the individual universities, 2012 to 2018.

Historical Table 6

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER FULL-TIME EQUIVALENT STUDENT BY ACADEMIC DIVISION AND LEVEL¹
2012-13 to 2017-18

University	Lower division					Upper division					Total undergraduate					Masters								
	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18						
State-related																								
Lincoln	\$3,010	\$3,137	\$3,360	\$3,743	\$3,242	\$3,193	\$3,440	\$5,775	\$4,131	\$6,508	6,035	6,224	\$3,086	\$3,781	\$3,582	\$4,434	\$3,908	\$3,877	\$4,985	\$3,763	\$4,266	\$5,091	\$4,042	\$4,227
Penn State	4,555	3,694	3,796	3,952	3,756	3,811	4,101	4,233	4,325	4,395	4,530	4,669	3,120	3,944	4,042	4,163	4,124	4,217	6,972	6,517	6,510	6,591	6,412	6,246
Pittsburgh	2,502	2,724	2,812	2,869	2,945	3,093	4,299	4,657	4,636	4,704	4,745	4,935	3,218	3,392	3,451	3,505	3,580	3,755	4,822	5,012	5,103	5,226	5,215	5,608
Temple	3,222	2,791	2,438	2,131	2,131	2,735	3,920	3,864	3,278	2,889	1,849	3,640	3,615	3,390	2,905	2,547	2,523	3,230	4,199	5,680	5,211	4,228	3,522	4,859
Total	3,219	3,316	3,239	3,257	3,130	3,408	3,989	4,250	4,049	4,026	4,032	4,407	3,375	3,744	3,611	3,615	3,548	3,873	5,350	6,178	6,054	5,969	5,535	5,841
State-owned																								
Bloomsburg	2,720	2,455	2,598	2,632	2,701	2,859	4,309	5,252	5,420	5,725	5,974	6,066	3,198	3,252	3,400	3,517	3,673	3,857	6,419	6,913	7,148	6,979	7,065	7,548
California	2,550	2,572	3,008	2,382	2,829	2,903	3,820	4,143	4,641	3,612	4,230	4,506	3,141	3,264	3,744	2,955	3,514	3,675	3,383	3,870	3,951	3,118	4,071	4,180
Cheyney	4,082	4,201	2,975	3,862	3,932	5,064	3,902	4,832	5,069	5,612	6,695	8,179	4,060	4,451	3,707	4,628	5,062	6,284	6,624	8,935	7,191	9,113	9,450	16,484
Clarion	3,034	3,291	3,242	3,344	3,471	3,564	5,780	5,261	5,161	5,091	5,126	5,021	3,910	3,973	3,920	3,993	4,091	4,129	4,327	5,466	5,400	5,007	5,466	5,236
East Stroudsburg	3,049	2,343	2,542	2,502	2,883	2,784	4,394	5,345	6,220	6,130	6,978	6,204	3,385	3,338	3,769	3,731	4,203	3,955	6,201	7,667	9,053	7,333	9,108	8,440
Edinboro	3,742	2,974	3,263	3,127	3,351	3,530	4,471	6,191	6,649	6,752	7,105	7,120	4,022	4,234	4,540	4,443	4,733	4,975	5,115	5,926	5,800	5,373	5,740	5,546
Indiana	3,323	2,513	2,496	2,403	2,600	2,734	5,174	5,363	5,191	5,015	5,300	5,802	3,911	3,439	3,381	3,271	3,548	3,797	4,233	6,307	6,920	6,374	6,829	7,388
Kutztown	2,511	2,751	2,942	2,944	3,289	3,305	4,100	4,493	4,718	4,703	5,103	5,078	3,213	3,541	3,769	3,769	4,143	4,165	5,561	4,943	5,112	4,982	5,130	5,201
Lock Haven	4,723	3,488	3,714	3,923	4,049	4,570	6,497	4,780	4,920	5,005	5,304	6,128	5,224	3,871	4,085	4,279	4,464	5,046	3,979	3,425	3,848	3,317	3,873	4,008
Mansfield	4,031	2,797	2,939	2,818	3,029	3,520	5,225	5,560	4,014	3,857	4,086	4,965	4,551	3,971	3,426	3,808	3,548	4,209	7,985	6,725	4,886	5,102	4,762	7,101
Millersville	3,281	3,138	3,545	3,494	3,708	3,731	4,021	4,247	4,664	4,666	5,044	4,995	3,572	3,573	3,925	3,957	4,238	4,227	4,408	5,157	5,640	5,517	5,649	5,568
Shippensburg	3,437	2,711	2,922	2,897	3,139	3,391	4,406	5,909	6,195	6,187	6,579	6,752	3,751	3,749	3,947	3,938	4,247	4,508	7,926	8,295	8,307	8,035	7,821	8,803
Slippery Rock	2,642	2,660	2,475	2,385	2,453	2,385	4,525	4,923	4,929	4,738	4,968	4,610	3,765	3,576	3,461	3,309	3,435	3,265	5,397	4,556	4,130	4,039	3,896	4,440
West Chester	2,669	2,562	2,439	2,685	2,483	2,678	4,458	4,749	4,471	4,929	4,528	4,897	3,399	3,410	3,232	3,556	3,292	3,541	5,604	6,568	6,059	6,604	5,928	3,541
Total	3,115	2,747	2,811	2,787	2,934	3,329	4,565	5,036	5,082	5,055	5,292	5,181	3,642	3,589	3,651	3,634	3,830	4,039	4,872	5,683	5,710	5,417	5,648	5,399
All universiti	4,026	3,070	3,060	3,065	3,053	3,209	3,617	4,554	4,435	4,404	4,465	4,411	3,855	3,694	3,641	3,639	3,662	3,730	5,345	5,979	5,933	5,769	5,603	5,475

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.

SOURCE: Data provided by the individual universities, 2012 to 2018

Historical Table 7

AVERAGE INSTRUCTIONAL FACULTY SALARY COST PER STUDENT CREDIT HOUR BY ACADEMIC DIVISION AND LEVEL¹
2012-13 to 2017-18

University	Lower division						Upper division						Total undergraduate						Masters						
	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	
State-related																									
Lincoln	\$100	\$105	\$112	\$125	\$108	\$106	\$115	\$192	\$138	\$217	\$201	\$207	\$103	\$126	\$119	\$148	\$130	\$129	\$208	\$157	\$178	\$212	\$168	\$176	
Penn State	152	123	127	132	125	127	137	141	144	146	151	156	104	131	135	139	137	141	291	272	271	275	267	260	
Pittsburgh	83	91	94	96	98	103	143	155	155	157	158	165	107	113	115	117	119	125	201	209	213	218	217	234	
Temple	107	93	81	71	62	91	131	129	109	96	84	121	121	113	97	85	74	108	175	237	217	167	147	249	
Total	107	111	111	109	104	114	133	142	137	134	134	147	113	125	123	121	118	129	223	257	230	249	231	243	
State-owned																									
Bloomsburg	91	82	87	88	90	95	144	175	181	191	199	202	107	108	113	117	122	129	267	288	298	291	294	315	
California	85	86	100	79	94	96	127	138	155	120	141	150	105	109	125	98	117	123	141	161	165	130	170	174	
Cheyney	136	140	99	111	131	169	130	161	169	170	223	273	135	148	124	133	169	209	276	372	300	209	394	687	
Clarion	101	110	108	111	116	119	193	175	172	170	171	167	130	132	131	133	136	137	180	228	225	209	228	218	
East Stroudsburg	102	99	85	83	96	93	146	206	207	204	233	207	79	141	126	124	140	132	258	247	377	306	380	352	
Edinboro	125	85	109	104	112	118	149	199	222	225	237	237	134	122	151	148	158	164	213	358	242	224	239	231	
Indiana	111	84	83	80	87	91	172	179	173	167	177	193	130	115	113	109	118	127	176	263	288	266	285	308	
Kutztown	84	92	98	98	110	110	137	150	157	157	170	169	107	118	126	126	138	139	232	206	213	208	214	217	
Lock Haven	157	116	124	131	135	152	217	159	164	167	177	205	174	129	136	143	149	168	166	143	160	138	161	167	
Mansfield	134	93	98	94	101	117	174	185	134	129	136	166	152	132	114	110	118	140	333	280	204	213	198	296	
Millersville	109	105	115	116	124	124	134	142	155	156	168	167	119	119	131	132	141	141	184	215	235	230	235	232	
Shippensburg	115	90	97	97	105	113	147	197	207	206	219	225	125	125	132	131	142	150	330	346	346	335	326	367	
Slippery Rock	88	89	83	79	82	80	151	164	164	158	166	154	126	119	115	110	115	108	225	190	172	168	162	185	
West Chester	89	85	81	89	83	89	149	158	149	164	151	163	113	114	108	119	110	118	234	274	252	275	247	274	
Total	104	92	94	93	98	111	152	168	169	168	176	173	121	120	122	121	128	135	203	237	238	226	235	225	
All universities	134	102	103	102	102	107	121	152	148	147	149	147	129	123	122	121	122	124	223	249	233	240	233	225	

1. The average instructional faculty salary cost per student credit hour 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 the total student credit-hour production for that level. Instructional faculty salary cost per student credit hour equals instructional faculty salary cost per FTE student divided by 30 for undergraduate students, and divided by 24 for graduate students (see Historical Table 6).

SOURCE: Data provided by the individual universities, 2012 to 2018.

Historical Table 8

AVERAGE CLASS SIZES IN CLASSROOM INSTRUCTION BY ACADEMIC DIVISION AND LEVEL¹
2012-13 to 2017-18

University	Lower division						Upper division						Total undergraduate						Master's						
	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	
State-related																									
Lincoln	23	21	15	19	19	21	20	13	14	14	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Penn State	31	31	32	32	30	29	28	27	27	28	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23
Pittsburgh	31	30	30	29	29	29	24	24	24	23	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Temple	34	33	32	33	29	33	27	26	26	26	27	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Total	31	31	31	31	30	29	27	26	26	27	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
State-owned																									
Bloomsburg	32	32	31	30	31	29	20	20	20	19	19	18	18	18	18	18	18	18	18	18	18	18	18	18	18
California	40	38	35	33	33	32	26	26	24	24	24	22	22	22	22	22	22	22	22	22	22	22	22	22	22
Cheyney	22	23	23	19	20	18	23	12	14	14	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Clarion	29	27	26	25	25	24	15	17	17	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
East Stroudsburg	37	40	41	37	35	34	26	25	24	19	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Edinboro	28	29	28	27	28	26	23	20	20	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Indiana	35	33	32	32	31	30	22	20	20	20	19	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Kutztown	32	34	33	32	30	30	21	21	20	20	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Lock Haven	29	29	29	27	25	24	21	21	22	21	19	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Mansfield	28	28	27	25	27	24	21	19	20	18	19	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Millersville	29	28	27	27	26	26	24	21	20	20	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Shippensburg	29	30	30	31	29	27	23	21	21	21	17	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Shippery Rock	31	30	33	32	32	31	18	19	19	19	18	19	19	19	19	19	19	19	19	19	19	19	19	19	19
West Chester	31	31	31	30	31	30	18	18	18	18	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Total	32	31	31	30	30	29	21	20	20	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
All universities	31	31	31	30	30	29	22	23	24	24	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22

1. The average class size for each level is calculated by dividing total classroom student credit hours by total classroom course (assigned) credits.

SOURCE: Data provided by the individual universities, 2012 to 2018.

Historical Table 9
COMMONWEALTH INSTRUCTIONAL APPROPRIATIONS¹
2012-13 to 2017-18
(in millions)

University	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
State-related						
Lincoln	\$11.1	\$10.8	\$13.2	\$14.1	\$14.4	\$14.4
Penn State	214.1	214.1	214.1	224.8	230.4	230.4
Pittsburgh	133.9	133.2	133.2	139.9	143.3	152.9
Temple	139.9	139.9	121.1	146.9	150.6	150.6
Total	488.0	498.1	481.6	525.7	538.8	548.3
State-owned						
Bloomsburg	33.5	33	33.0	34.6	36.2	36.2
California	30.5	29.8	29.8	30.8	31.5	32.5
Cheyney	12.8	13.1	13	13.1	12.9	12.6
Clarion	22.6	22.3	23.2	24.1	25.0	25.0
East Stroudsburg	20.8	21.2	22.1	24.1	26.1	27.0
Edinboro	25.5	25	25.7	26.6	26.2	26.7
Indiana	53.0	52.4	51.5	54.4	53.3	53.9
Kutztown	33.8	33.1	32.9	34.3	35.6	35.6
Lock Haven	19.6	20	21.2	23.4	24.6	25.0
Mansfield	17.0	16.7	16.6	16.8	16.3	16.8
Millersville	30.3	30.9	30.2	32.1	32.5	33.8
Shippensburg	28.0	28.2	28.4	28.3	29.7	29.9
Slippery Rock	32.0	32.6	32.6	34.8	36.4	37.8
West Chester	48.9	49.9	48.0	50.7	53.0	55.3
Total ²	408.3	407.9	408.1	428.1	439.3	448.0
All universities ²	896.4	906	889.8	953.8	978.1	996.3

1. Instructional appropriations include educational and general appropriations. FTE students include in-State and out-of-State undergraduate and graduate students. Excludes medical school data.
2. Excludes amount of instructional appropriations allocated to Office of the Chancellor and the System Reserve of the Pennsylvania State System of Higher Education.

SOURCE: Instructional appropriations - Governor's Executive Budget, 2012-13 to 2017-18; data provided by the individual State-related universities and the Pennsylvania State System of Higher Education, 2012 to 2018. FTE students - data provided by the individual universities, 2012 to 2018.

Historical Table 10
ACADEMIC YEAR TUITION AND REQUIRED FEES FOR FULL-TIME STUDENTS
BY ACADEMIC LEVEL AND RESIDENCE
2012-13 to 2017-2018

University	Undergraduate		Graduate ¹	
	In-State	Out-of-State	In-State	Out-of-State
State-related				
Lincoln				
2012-13	9,590	14,756	11,328	18,682
2013-14	9,804	15,084	11,602	19,132
2014-15	10,232	15,618	11,420	18,950
2015-16	10,878	16,398	11,420	18,950
2016-17	11,102	16,733	11,420	18,950
2017-18	11,379	17,151	11,615	19,145
Penn State				
2012-13	16,444	28,746	18,552	31,398
2013-14	16,992	29,566	19,172	32,148
2014-15	17,502	30,452	19,746	33,110
2015-16	17,514	31,346	20,270	34,084
2016-17	17,900	32,382	20,912	35,214
2017-18	18,436	33,664	21,752	36,606
Pittsburgh				
2012-13	16,590	23,301	20,076	32,398
2013-14	17,100	27,106	20,704	33,426
2014-15	17,772	28,168	21,542	34,760
2015-16	18,192	28,958	22,060	35,744
2016-17	18,618	29,758	22,578	36,734
2017-18	19,080	30,642	22,060	35,744
Temple				
2012-13	13,596	23,422	12,956	17,888
2013-14	14,096	24,122	14,100	19,464
2014-15	14,696	24,722	15,180	20,544
2015-16	15,188	25,494	16,144	21,832
2016-17	16,274	27,266	16,676	22,526
2017-18	16,658	28,418	17,054	23,048
State-owned				
Bloomsburg				
2012-13	8,344	18,170	9,636	13,506
2013-14	8,582	18,706	9,984	13,962
2014-15	8,914	19,364	11,250	15,790
2015-16	9,326	20,144	11,750	16,450
2016-17	10,154	21,246	14,165	19,973
2017-18	10,500	21,980	14,654	20,654
California				
2012-13	9,379	13,825	11,040	14,910
2013-14	9,239	13,091	10,944	14,922
2014-15	9,556	13,550	11,255	15,341
2015-16	9,936	14,069	11,707	15,937
2016-17	10,339	14,673	15,508	21,316
2017-18	10,840	15,326	16,203	22,203
Cheyney				
2012-13	8,602	12,966	8,486	13,119
2013-14	8,806	13,302	8,720	12,698
2014-15	9,090	13,744	8,712	12,384
2015-16	9,344	14,162	8,982	12,798
2016-17	11,356	17,452	11,982	17,214
2017-18	12,104	17,452	13,998	19,998
Clarion				
2012-13	9,090	12,810	12,218	15,993
2013-14	9,404	13,237	15,079	20,383
2014-15	9,788	13,760	15,630	21,078
2015-16	10,190	14,660	12,222	16,452
2016-17	10,287	14,764	16,688	22,496
2017-18	10,890	15,636	17,258	23,258
East Stroudsburg				
2012-13	8,758	18,584	9,898	13,768
2013-14	8,991	19,115	10,170	14,148
2014-15	9,376	19,826	10,570	14,652
2015-16	9,684	20,502	10,922	15,152
2016-17	9,968	21,110	14,142	19,950
2017-18	10,098	21,778	14,808	20,804

ACADEMIC YEAR TUITION AND REQUIRED FEES FOR FULL-TIME STUDENTS
BY ACADEMIC LEVEL AND RESIDENCE
2012-13 to 2017-2018

University	Undergraduate		Graduate ¹	
	In-State	Out-of-State	In-State	Out-of-State
Edinboro				
2012-13	8,578	12,315	7,722	11,592
2013-14	8,849	12,701	10,071	14,049
2014-15	9,256	13,249	10,417	14,503
2015-16	9,536	10,176	10,769	14,999
2016-17	10,074	10,640	11,184	15,540
2017-18	10,282	14,668	11,557	16,057
Indiana				
2012-13	8,672	19,480	9,893	13,763
2013-14	9,080	20,216	10,222	14,200
2014-15	9,470	20,965	10,475	14,561
2015-16	9,936	21,835	11,174	15,404
2016-17	11,368	22,377	14,515	20,323
2017-18	12,119	17,271	16,073	22,073
Kutztown				
2012-13	8,596	18,422	9,318	13,188
2013-14	8,819	18,943	9,575	13,553
2014-15	9,099	19,549	9,800	13,886
2015-16	9,411	20,229	10,219	14,449
2016-17	9,618	20,710	10,489	14,845
2017-18	9,987	13,975	10,847	15,347
Lock Haven				
2012-13	8,564	16,390	10,283	14,153
2013-14	8,899	17,023	10,646	14,624
2014-15	9,276	17,726	10,966	15,052
2015-16	9,380	18,050	11,328	15,558
2016-17	10,229	19,321	14,900	20,708
2017-18	10,576	20,056	15,417	21,417
Mansfield				
2012-13	8,926	18,752	9,484	13,354
2013-14	9,192	19,316	9,792	13,770
2014-15	9,526	19,976	10,048	14,134
2015-16	9,806	20,624	10,504	14,734
2016-17	11,908	21,292	13,654	19,462
2017-18	12,316	22,008	14,230	20,230
Millersville				
2012-13	8,600	18,426	9,864	13,734
2013-14	8,866	18,990	10,191	14,130
2014-15	10,268	23,868	10,472	14,558
2015-16	10,918	20,336	10,868	15,098
2016-17	11,494	20,854	14,898	20,706
2017-18	11,858	21,560	15,402	21,402
Shippensburg				
2012-13	9,154	17,374	9,936	13,806
2013-14	9,448	17,916	10,424	14,220
2014-15	9,774	18,520	10,566	14,652
2015-16	10,052	19,106	10,926	15,156
2016-17	11,452	19,542	14,976	20,784
2017-18	12,086	20,186	15,480	21,480
Slippery Rock				
2012-13	8,748	12,146	10,525	14,395
2013-14	9,027	12,529	10,852	14,830
2014-15	9,309	12,939	11,166	15,252
2015-16	9,645	13,175	11,575	15,373
2016-17	9,862	13,716	15,363	21,171
2017-18	10,205	14,193	15,907	21,907
West Chester				
2012-13	8,620	18,446	9,831	13,701
2013-14	8,850	18,974	10,090	14,068
2014-15	9,144	19,594	10,403	14,489
2015-16	9,462	20,280	10,772	15,002
2016-17	9,720	20,812	13,991	19,799
2017-18	10,111	21,591	15,121	21,121

1. Excludes first-professional level.

APPENDIX:

MODEL OF FTE SALARY COST DETERMINATION

Instructional faculty salary cost per student credit hour, for each academic level and each program area, can be expressed by the following model:

$$\begin{array}{rcccl}
 \text{FTE} & & \text{Number of FTE} & & \text{Average FTE instructional} \\
 \text{Instructional} & & \text{instructional faculty} & & \text{faculty salary} \\
 \text{faculty} & & \text{Number} & \text{Average} & \text{Average} & \text{Number} \\
 \text{salaries} & = & \text{of} & \text{course} & \text{class} & \text{of classes} \\
 \text{Student} & & \text{courses} & \text{(assigned)} & \text{(section)} & \text{(sections)} \\
 \text{credit hours} & & & \text{credit} & \text{size} & \text{Number} \\
 & & & \text{value} & & \text{of courses}
 \end{array}$$

The two terms on the right-hand side of this equation illustrate the two different kinds of factors which determine FTE instructional 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 number of faculty per average course (assigned) credit value can be readily varied to influence FTE instructional salary cost.

The second term contains *control variables*: average FTE instructional faculty salary, average class (section) 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 instructional salary cost. Adjustments in the number of classes (sections) per course are an alternative to permitting average class sizes to change with changes in enrollment.

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