

JOINT STATE GOVERNMENT COMMISSION

General Assembly of the Commonwealth of Pennsylvania

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

*Staff Analysis of 2021-22
Data Reported Under the Public School Code Of 1949*

March 2023



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

REPORT

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

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The report is also available at <http://jsg.legis.state.pa.us>

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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.

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 contained in a study report.

¹ Act of July 1, 1937 (P.L.2460, No.459); 46 P.S. §§ 65–69.

² Consensus does not necessarily reflect unanimity among the advisory committee members on each individual policy or legislative recommendation. At a minimum, it reflects 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 receives the financial benefit of such volunteerism, along with their shared 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 to construe or apply its provisions.³

Since its inception, the Commission has published over 450 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.



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March 2023

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To the Members of the General Assembly of Pennsylvania:

This is the Fiftieth Anniversary Edition of the Instructional Output and Faculty Salary Costs of the State-related Universities. Since its inception by Senator Richard Snyder circa 1970, it has been commonly referred to as “the Snyder Report.” The report began as a “gentlemen’s agreement” between Senator Snyder and the universities and was later formalized in the annual appropriations bills and eventually in the Public School Code of 1949.

No single report on Pennsylvania higher education contains the information presented in the Snyder report and certainly few state government reports in existence chronicle 50 years of detailed information with unwavering consistency. The reader is cautioned, however, that while this series of reports presents 50 years of information about the state-related institutions, amendments to the Public School Code exempted the PASSHE universities from having to report data after 2020.

Many employees of the Commission, the PASSHE universities, and the state-related universities have had a role in producing the report over the past 50 years. It is to their credit that this volume is dedicated.

Pursuant to the Pennsylvania Public School Code of 1949, the Instructional Output and Faculty Salary Costs of the State-related 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.

Sincerely,

Glenn J. Pasewicz
Executive Director

50th Annual Report

This report summarizes the instructional outputs, instructional faculty salary costs, tuition, and Commonwealth instructional appropriations for Pennsylvania's State-related universities. Act 50 of 2020 eliminated the requirement for the PASSHE universities to report their data to the Commission. Consequently, these annual reports will no longer include information from PASSHE 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 non-salary expenditures, the report does not summarize total instructional costs for the universities. Data on tuition and Commonwealth instructional appropriations supplement the university data.

Levels of data for 2021-22 and data trends for 2016-17 to 2021-22 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 UNIVERSITIES AND BRANCH CAMPUSES BY COUNTY

Lincoln (Chester)

Penn State University Park (Centre)

Branch Campuses

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)*

Branch Campuses

Bradford Campus (McKean)

Greensburg Campus (Westmoreland)

Johnstown Campus (Cambria)

Titusville Campus (Crawford)

Temple (Philadelphia)*

Branch Campuses

Ambler Campus (Montgomery)

Harrisburg Center (Dauphin)

* Medical School data not included in this report.

** Not included in this report.

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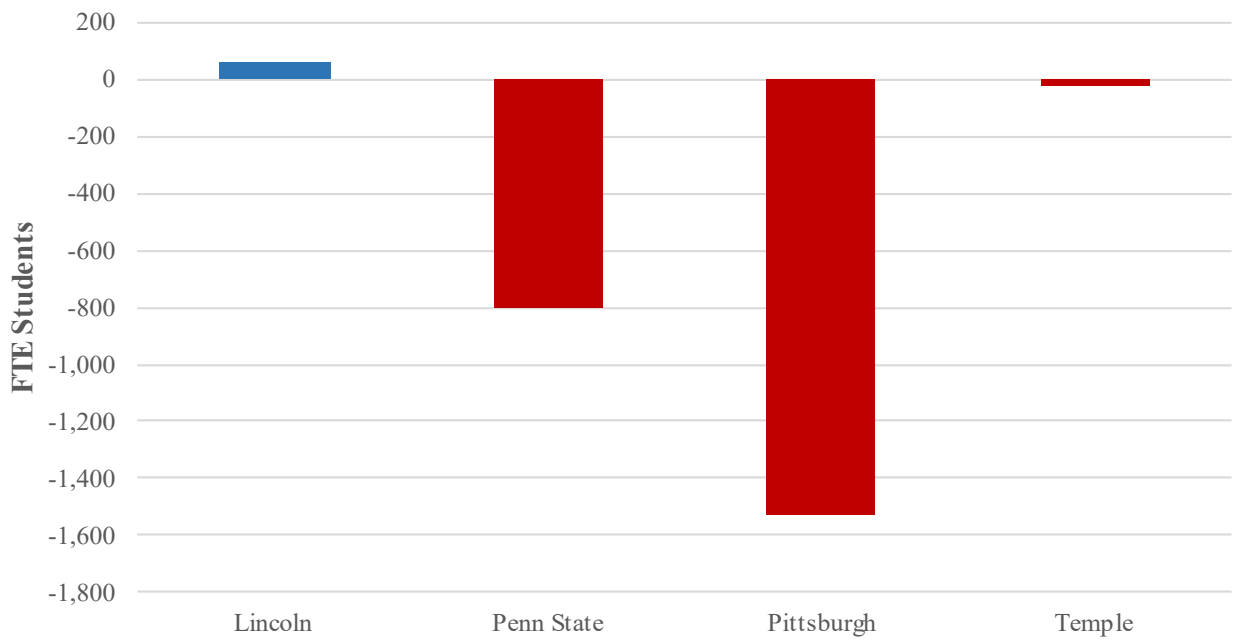
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**STATE-RELATED UNIVERSITIES
FTE STUDENT ENROLLMENT CHANGES
2016-2017 TO 2021-2022**

State-Related Universities



CURRENT YEAR DATA TABLES

TABLE 1

**Full-Time Equivalent Students by Academic Level¹
2021-22, Change from 2020-21 and Five-Year Average Annual Rate of Change (2016-17 to 2021-22)**

State-related 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	
Lincoln	1,757	-94	-5%	-1%	1,639	-74	-4%	a	118	-21	-15%	-10%
Penn State	85,864	-1,195	-1	-1	74,746	-1,476	-2	-2%	11,118	281	3	4
Pittsburgh	32,736	275	1	-1	24,322	68	a	-1	8,414	208	3	a
Temple	33,645	-1,399	-4	-2	26,579	-1,236	-4	-2	7,065	-162	-2	-2
Total	154,002	-2,413	-2	-1	127,286	-2,718	-2	-2	26,716	305	1	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, Pittsburgh, and Temple.

a. Rounds to less than 1 percent.

SOURCE: Data provided by the individual universities, 2017 to 2022.

TABLE 2

**Full-Time Equivalent Students by Academic Division and Level¹
2021-22, Change from 2020-21 and Five-Year Average Annual Rate of Change (2016-17 to 2021-22)**

State-related University	Lower Division			Upper Division			Master's			First Professional ² and Doctor's		
	FTE Students	Percent change		FTE Students	Percent change		FTE students	Percent change		FTE students	Percent change	
		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average
Lincoln	1,212	1%	-1%	427	-17%	2%	118	-15%	-10%	--	--	--
Penn State	38,983	a	-2	35,763	-4	-1	6,456	2	6	4,662	3%	2%
Pittsburgh	15,515	a	-1	8,807	1	a	5,334	4	-1	3,080	a	2
Temple	11,866	1	-3	14,713	-8	-1	3,478	-4	-2	3,588	-1	-1
Total	67,576	a	-2	59,711	-4	-1	15,386	1	1	11,330	1	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, 2017 to 2022.

TABLE 3-A

**Lincoln University
Number and Percentage Distribution of Full-Time Equivalent Students¹
by Academic Division and Level and CIP Classification
2021-22**

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	65	4%	55	5%	10	2%	--	--
Business	155	9	48	4	87	20	21	17%
Communications	73	4	34	3	39	9	--	--
Computer and Information Sciences	53	3	40	3	13	3	--	--
Education	65	4	3	a	--	--	62	53
Engineering	--	--	--	--	--	--	--	--
Foreign Languages, Literature, and Linguistics	60	3	58	5	2	1	--	--
Health Professions	143	8	79	7	64	15	--	--
Family and Consumer Sciences/Human Sciences	--	--	--	--	--	--	--	--
Legal Professions and Studies	--	--	--	--	--	--	--	--
English Language	172	10	156	13	16	4	--	--
Liberal Arts and Sciences, General Studies and Humanities	--	--	--	--	--	--	--	--
Library Science	--	--	--	--	--	--	--	--
Biological and Biomedical Sciences	127	7	108	9	19	5	--	--
Mathematics and Statistics	126	7	126	10	a	a	--	--
Military Technologies	--	--	--	--	--	--	--	--
Multi/Interdisciplinary Studies	--	--	--	--	--	--	--	--
Parks, Recreation, Leisure, and Fitness Studies	--	--	--	--	--	--	--	--
Personal and Social Development	--	--	--	--	--	--	--	--
Philosophy and Religion/Theology	90	5	83	7	7	2	--	--
Physical Sciences	87	5	82	7	4	1	--	--
Psychology	67	4	34	3	33	8	--	--
Security and Protective Services/Public Admin. and Services	165	9	61	5	69	16	35	30
Social Sciences and History	156	9	103	9	53	12	--	--
Trade and Industrial	--	--	--	--	--	--	--	--
Visual and Performing Arts	126	7	114	9	12	3	--	--
Other	28	2	28	2	a	a	--	--
Total²	1,757	100	1,212	100	427	100	118	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, 2022; 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 3-B

**Pennsylvania State University
Number and Percentage Distribution of Full-Time Equivalent Students¹
by Academic Division and Level and CIP Classification
2021-22**

CIP Classification	Total	Percent of total	Undergraduate				Graduate	Percent of total
			Lower Division	Percent of total	Upper Division	Percent of total		
Agriculture	1,441	2%	654	2%	639	2%	148	1%
Architecture and Related Services	566	1	248	1	252	1	67	1
Area, Ethnic, Cultural, and Gender Studies	949	1	746	2	158	a	44	a
Business	10,327	12	1,886	5	6,310	18	2,131	19
Communications	4,264	5	2,565	7	1,558	4	141	1
Computer and Information Sciences	4,512	5	1,657	4	2,277	6	577	5
Education	2,172	3	191	a	1,147	3	834	8
Engineering	8,185	10	1,802	5	4,487	13	1,896	17
Foreign Languages, Literature, and Linguistics	3,126	4	1,449	4	1,555	4	122	1
Health Professions	3,084	4	649	2	1,825	5	609	5
Family and Consumer Sciences/Human Sciences	1,933	2	1,051	3	766	2	115	1
Legal Professions and Studies	1,055	1	--	--	--	--	1,055	9
English Language	3,868	5	3,101	8	695	2	73	1
Liberal Arts and Sciences, General Studies and Humanities	86	a	38	a	47	a	1	a
Library Science	--	--	--	--	--	--	--	--
Biological and Biomedical Sciences	5,089	6	2,547	7	2,055	6	487	4
Mathematics and Statistics	7,764	9	5,069	13	2,329	7	367	3
Military Technologies	85	a	38	a	48	a	--	--
Multi/Interdisciplinary Studies	1,115	1	335	1	310	1	470	4
Parks, Recreation, Leisure, and Fitness Studies	2,065	2	529	1	1,478	4	58	1
Personal and Social Development	2	a	1	a	1	a	--	--
Philosophy and Religion/Theology	976	1	758	2	180	1	37	a
Physical Sciences	6,421	7	4,550	12	1,248	3	623	6
Psychology	3,346	4	1,621	4	1,399	4	326	3
Security and Protective/Public Admin. Services	1,541	2	714	2	605	2	222	2
Social Sciences and History	8,034	9	4,563	12	2,899	8	571	5
Trade and Industrial	6	a	--	--	6	a	--	--
Visual and Performing Arts	3,853	4	2,222	6	1,488	4	142	1
Other	--	--	--	--	--	--	--	--
Total²	85,864	100	38,983	100	35,763	100	11,118	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, 2022; 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 3-C

**University of Pittsburgh
Number and Percentage Distribution of Full-Time Equivalent Students¹
by Academic Division and Level and CIP Classification
2021-22**

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	322	a	199	a	116	a	6	a
Business	2,265	7%	427	7%	1,183	13%	655	8%
Communications	--	--	--	--	--	--	--	--
Computer and Information Sciences	1,273	4	566	4	423	5	284	3
Education	982	3	166	3	301	3	515	6
Engineering	2,553	8	798	8	1,064	12	691	8
Foreign Languages, Literature, and Linguistics	1,475	5	955	5	429	5	91	1
Health Professions	5,221	16	474	16	1,009	11	3,738	44
Family and Consumer Sciences/Human Sciences	--	--	--	--	--	--	--	--
Legal Professions and Studies	559	2	4	2	6	a	550	7
English Language	2,535	8	1,979	8	511	6	45	1
Liberal Arts and Sciences, General Studies and Humanities	--	--	--	--	--	--	--	--
Library Science	115	a	2	a	4	a	109	1
Biological and Biomedical Sciences	1,897	6	1,033	6	740	8	124	1
Mathematics and Statistics	1,908	6	1,279	6	452	5	177	2
Military Technologies	17	a	6	a	11	a	--	--
Multi/Interdisciplinary Studies	1,383	4	888	4	475	5	20	a
Parks, Recreation, Leisure, and Fitness Studies	--	--	--	--	--	--	--	--
Personal and Social Development	--	--	--	--	--	--	--	--
Philosophy and Religion/Theology	562	2	388	2	145	2	29	a
Physical Sciences	2,759	8	2,227	8	283	3	249	3
Psychology	1,799	5	1,173	5	422	5	204	2
Security and Protective/Public Admin. Services	936	3	71	3	133	2	732	9
Social Sciences and History	3,041	9	1,988	9	923	10	130	2
Trade and Industrial	--	--	--	--	--	--	--	--
Visual and Performing Arts	1,137	3	893	3	181	2	63	1
Other	--	--	--	--	--	--	--	--
Total²	32,736	100	15,515	100	8,807	100	8,414	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 University of Pittsburgh, 2022; 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 3-D

**Temple University
Number and Percentage Distribution of Full-Time Equivalent Students¹
by Academic Division and Level and CIP Classification
2021-22**

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	312	1%	101	1%	147	1%	64	1%
Area, Ethnic, Cultural, and Gender Studies	478	1	245	2	217	1	17	a
Business	5,259	16	1,514	13	2,793	19	951	13
Communications	2,357	7	806	7	1,432	10	119	2
Computer and Information Sciences	783	2	233	2	487	3	63	1
Education	1,429	4	453	4	525	4	451	6
Engineering	1,114	3	357	3	685	5	73	1
Foreign Languages, Literature, and Linguistics	896	3	433	4	448	3	15	a
Health Professions	4,205	12	408	3	843	6	2,953	42
Family and Consumer Sciences/Human Sciences	--	--	--	--	--	--	--	--
Legal Professions and Studies	1,004	3	15	a	21	a	968	14
English Language	1,193	4	859	7	298	2	36	1
Liberal Arts and Sciences, General Studies and Humanities	1,246	4	785	7	458	3	4	a
Library Science	--	--	--	--	--	--	--	--
Biological and Biomedical Sciences	975	3	368	3	514	3	92	1
Mathematics and Statistics	1,333	4	988	8	325	2	20	a
Military Technologies	--	--	--	--	--	--	--	--
Multi/Interdisciplinary Studies	55	a	29	a	23	a	3	a
Parks, Recreation, Leisure,	1,311	4	396	3	779	5	137	2
Personal and Social Development	--	--	--	--	--	--	--	--
Philosophy and Religion/Theology	686	2	280	2	383	3	23	a
Physical Sciences	1,467	4	621	5	742	5	104	1
Psychology	1,636	5	589	5	818	6	229	3
Security and Protective/Public Admin. Services	891	3	190	2	366	2	336	5
Social Sciences and History	2,436	7	1,154	10	1,145	8	137	2
Trade and Industrial	--	--	--	--	--	--	--	--
Visual and Performing Arts	2,578	8	1,044	9	1,263	9	271	4
Other	--	--	--	--	--	--	--	--
Total²	33,645	100	11,866	100	14,713	100	7,065	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, 2022; 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 4

**Degrees Conferred¹
2021-22, Change from 2020-21 and Five-Year Average Annual Rate of Change (2016-17 To 2021-22)**

State-related 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
Lincoln	462	-56	-11%	2%	377	-93	-20%	5%	85	10	13%	-7%
Penn State	20,521	-624	-3	a	15,638	-1,046	-6	-1	4,883	422	9	3
Pittsburgh	8,401	-212	-2	-2	5,585	-139	-2	a	2,816	-73	-3	-5
Temple	8,903	-507	-5	a	6,221	-340	-5	-1	2,682	-167	-6	1
Total	38,287	-1,399	-4	a	27,821	-1,594	-5	-1	10,466	195	2	a

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.

a. Rounds to less than 1 percent.

SOURCE: Data provided by the individual universities, 2017 to 2022.

TABLE 5

**Number and Workweeks of Full-Time Employed Faculty by Type of Activity
Fall 2021, and Percentage Change from Fall 2020**

State-related University	Student contact						Average weekly hours ²						
	Full-time employed faculty ¹	Under graduate	Percent change	Graduate	Percent change	Instructional support ³	Percent change	Research	Percent change	Other university service ⁴	Percent change	Total work-week	Percent change
Lincoln	109	8.9	-1%	a	-11%	18.4	-8%	9.9	-3%	13.5	7%	51.4	-2%
Penn State	3,672	9.8	-6	2.7	-11	14.7	a	14.1	-3	8.2	4	49.5	-1
Pittsburgh	2,175	4.7	-6	2.3	1	14.9	7	20.4	-4	9.7	1	52.1	a
Temple	1,032	5.3	-4	2.6	1	17.3	-9	13.3	-1	9.9	3	48.4	-2
Total	6,988	7.5	-7	2.5	-6	15.2	-2	15.9	8	9.0	3	50.2	a

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, 2021 to 2022

TABLE 6

**Number and Average Instructional Salaries of Full-Time Equivalent Instructional Faculty
and Percentage Distribution by Rank¹
2021-22
(Dollars in thousands)**

State-related University	FTE Instructional faculty		Average Instructional salary		Professor		Associate professor		Assistant professor		Instructor		No rank ²	
	Number	Percent Change	Amount	Percent Change	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
		2020-21 to 2021-22		2020-21 to 2021-22										
Lincoln	180	-2%	51,453	6%	93,082	21%	72,531	23%	65,538	34%	19,203	15%	58,255	7%
Penn State	4,182	-13	86,180	3	147,705	30	101,805	19	89,713	16	64,586	24	52,242	12
Pittsburgh	2,339	a	69,662	1	136,787	28	82,149	20	69,978	20	44,128	8	61,094	23
Temple	1,895	1	73,068	2	132,677	29	88,118	29	68,295	23	64,515	15	21,415	6
Total	8,596	-7	79,198	2	140,973	29	90,561	22	72,630	16	60,047	19	\$49,281	14

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, 2021 to 2022.

TABLE 7

**Average Instructional Faculty Salary Cost Per Full-Time Equivalent Student
by Academic Division and Level¹ 2021-22,
Change from 2020-21 and Five-Year Average Annual Rate of Change (2016-17 to 2021-22)**

State-related University	Undergraduate							Master's				
	Lower Division	Percent change		Upper Division	Percent change		Total undergraduate	Percent change		Total master's	Percent change	
		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average
Lincoln	\$4,381	5%	6%	\$6,742	21%	3%	\$4,997	9%	5%	\$9,069	28%	18%
Penn State	3,576	-12	-1	4,265	-8	-1	3,906	-10	-1	5,878	-8	-2
Pittsburgh	3,303	-1	2	5,410	6	3	4,066	2	3	6,214	-7	4
Temple	3,189	4	13	4,292	9	12	3,799	7	13	5,907	5	12
Total	3,471	-6	2	4,468	-1	2	3,939	-4	2	5,993	-5	2

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, 2017 to 2022.

TABLE 8A

**Lincoln University
Average Instructional Faculty Salary Cost Per Full-Time Equivalent Student¹
by Academic Division and Level and CIP Classification
2021-22**

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	\$2,176	\$6,942	\$2,900	--	--	--
Business	2,884	5,068	4,294	\$9,088	--	--
Communications	5,331	7,028	6,234	--	--	--
Computer and Information Sciences	5,026	8,318	5,813	--	--	--
Education	4,259	--	4,259	7,467	--	--
Engineering	--	--	--	--	--	--
Foreign Languages, Literature, and Linguistics	2,542	11,851	2,881	--	--	--
Health Professions	6,057	8,481	7,136	--	--	--
Family and Consumer Sciences/Human Sciences	--	--	--	--	--	--
Legal Professions and Studies	--	--	--	--	--	--
English Language	3,554	7,355	3,910	--	--	--
Liberal Arts and Sciences, General Studies and Humanities	--	--	--	--	--	--
Library Science	--	--	--	--	--	--
Biological and Biomedical Sciences	4,705	9,988	5,507	--	--	--
Mathematics and Statistics	5,008	56,375	5,171	--	--	--
Military Technologies	--	--	--	--	--	--
Multi/Interdisciplinary Studies	--	--	--	--	--	--
Parks, Recreation, Leisure, and Fitness Studies	--	--	--	--	--	--
Personal and Social Development	--	--	--	--	--	--
Philosophy and Religion/Theology	3,109	13,735	3,891	--	--	--
Physical Sciences	7,691	28,652	8,770	--	--	--
Psychology	6,276	5,814	6,048	--	--	--
Security and Protective/Public Admin. Services	3,817	5,451	4,680	6,256	--	--
Social Sciences and History	3,443	5,305	4,077	--	--	--
Trade and Industrial	--	--	--	--	--	--
Visual and Performing Arts	5,701	13,773	6,478	--	--	--
Other	1,899	35,063	2,018	--	--	--
Total	4,381	6,742	4,997	9,069	--	--

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, 2022; 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
2021-22**

CIP Classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional ²	Doctor's
Agriculture	\$3,409	\$4,581	\$3,988	\$11,186	--	\$8,849
Architecture and Related Services	4,081	6,238	5,168	13,827	--	8,747
Area, Ethnic, Cultural, and Gender Studies	4,315	10,326	5,366	17,396	--	6,810
Business	3,617	5,218	4,850	5,236	--	11,252
Communications	3,823	4,662	4,140	6,817	--	4,243
Computer and Information Sciences	4,357	4,282	4,314	5,193	--	1,605
Education	5,777	4,289	4,501	4,214	--	6,496
Engineering	3,954	4,407	4,278	6,114	--	4,559
Foreign Languages, Literature, and Linguistics	3,887	4,609	4,261	5,752	--	3,185
Health Professions	3,381	3,347	3,356	8,097	--	7,472
Family and Consumer Sciences/Human Sciences	1,335	2,722	1,920	5,347	--	2,887
Legal Professions and Studies	--	--	--	5,753	\$7,431	47,876
English Language	4,034	5,614	4,324	6,603	--	2,528
Lib. Arts and Sci., Gen. Studies and Humanities	3,730	3,508	3,607	26,554	--	--
Library Science	--	--	--	--	--	--
Biological and Biomedical Sciences	2,201	2,812	2,474	6,098	--	6,021
Mathematics and Statistics	3,202	3,226	3,209	3,270	--	4,447
Military Technologies	--	--	--	--	--	--
Multi/Interdisciplinary Studies	5,735	6,311	6,012	6,600	--	9,808
Parks, Recreation, Leisure, and Fitness Studies	1,795	1,558	1,620	5,945	--	2,911
Personal and Social Development	--	--	--	--	--	-
Philosophy and Religion/Theology	4,299	5,638	4,556	0	--	3,255
Physical Sciences	4,132	4,244	4,156	10,377	--	6,303
Psychology	2,743	4,557	3,583	7,401	--	8,663
Security and Protective/Public Admin. Serv.	4,077	4,658	4,344	4,775	--	7,843
Social Sciences and History	3,270	4,914	3,909	9,636	--	9,188
Trade and Industrial	--	20,182	20,182	--	--	--
Visual and Performing Arts	3,168	4,748	3,802	14,484	--	6,111
Other	--	--	--	--	--	--
Total	3,576	4,265	3,906	5,878	7,431	5,899

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.

2. Excludes Medical School Data.

SOURCE: Data provided by Pennsylvania State University, 2022; 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
2021-22**

CIP Classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional ²	Doctor's
Agriculture	--	--	--	--	--	--
Architecture and Related Services	--	--	--	--	--	--
Area, Ethnic, Cultural, and Gender Studies	\$1,993	\$5,238	\$3,191	\$3,119	--	\$38,209
Business	3,478	5,352	4,855	4,879	\$15,183	52,427
Communications	--	--	--	--	--	--
Computer and Information Sciences	2,533	4,565	3,403	9,145	--	47,143
Education	3,146	7,045	5,661	3,719	--	11,790
Engineering	2,724	3,938	3,418	8,452	--	38,402
Foreign Languages, Literature, and Linguistics	4,530	5,056	4,693	8,682	--	43,540
Health Professions	3,551	5,931	5,170	5,995	2,235	17,480
Family and Consumer Sciences/Human Sciences	--	--	--	--	--	--
Legal Professions and Studies	2,704	3,920	3,454	12,285	4,517	--
English Language	3,417	5,886	3,924	8,397	--	9,933
Liberal Arts and Sciences, General Studies and Humanities	--	--	--	--	--	--
Library Science	8,838	6,383	7,181	8,163	--	40,215
Biological and Biomedical Sciences	2,658	4,968	3,622	6,380	--	33,687
Mathematics and Statistics	3,138	3,891	3,334	7,718	--	9,114
Military Technologies	--	--	--	--	--	--
Multi/Interdisciplinary Studies	4,364	4,579	4,439	7,503	--	11,933
Parks, Recreation, Leisure, and Fitness Studies	--	--	--	--	--	--
Personal and Social Development	--	--	--	--	--	--
Philosophy and Religion/Theology	3,399	6,093	4,131	15,156	--	100,846
Physical Sciences	3,005	9,635	3,751	6,179	--	18,818
Psychology	2,036	6,440	3,201	8,395	17,524	17,655
Security and Protective/Public Admin. Services	4,427	6,129	5,533	5,837	24,802	16,636
Social Sciences and History	2,499	5,735	3,525	22,531	--	15,756
Trade and Industrial	--	--	--	--	--	--
Visual and Performing Arts	3,287	7,085	3,926	9,163	--	26,193
Other	--	--	--	--	--	--
Total	3,303	5,410	4,066	6,214	2,554	22,986

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.

2. Excludes Medical School Data

SOURCE: Data provided by University of Pittsburgh, 2022; 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
2021-22**

CIP Classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional ²	Doctor's
Agriculture	--	--	--	--	--	--
Architecture and Related Services	\$4,209	\$5,393	\$4,910	\$7,015	--	--
Area, Ethnic, Cultural, and Gender Studies	1,923	3,036	2,446	7,003	--	\$7,978
Business	2,823	4,516	3,921	5,406	\$6,467	22,589
Communications	2,647	4,361	3,744	7,576	--	17,162
Computer and Information Sciences	3,597	5,370	4,797	12,111	--	23,309
Education	3,480	4,468	4,010	5,688	--	8,911
Engineering	4,036	5,396	4,930	15,658	--	28,652
Foreign Languages, Literature, and Linguistics	2,720	3,432	3,082	5,681	--	6,397
Health Professions	2,790	4,276	3,791	6,781	1,288	5,987
Family and Consumer Sciences/Human Sciences	--	--	--	--	--	--
Legal Professions and Studies	8,790	10,049	9,536	7,829	9,447	--
English Language	2,572	2,790	2,628	5,229	--	6,654
Liberal Arts and Sciences, Human Sciences	2,197	2,392	2,269	7,550	--	9,437
Library Science	--	--	--	--	--	--
Biological and Biomedical Sciences	1,598	3,558	2,740	6,124	--	36,388
Mathematics and Statistics	2,324	3,417	2,595	17,011	--	26,785
Military Technologies	--	--	--	--	--	--
Multi/Interdisciplinary Studies	6,690	8,287	7,404	8,638	--	--
Parks, Recreation, Leisure, and Fitness Studies	2,123	3,978	3,353	7,455	--	11,894
Personal and Social Development	--	--	--	--	--	--
Philosophy and Religion/Theology	2,434	3,011	2,767	8,150	--	13,184
Physical Sciences	2,472	3,416	2,985	9,553	--	22,559
Psychology	2,443	4,188	3,457	5,679	--	13,755
Security and Protective/Public Admin. Services	2,773	3,536	3,276	4,164	12,446	6,702
Social Sciences and History	2,399	3,687	3,041	5,442	--	9,174
Trade and Industrial	--	--	--	--	--	--
Visual and Performing Arts	3,788	5,108	4,511	10,201	--	17,031
Other	--	--	--	--	--	--
Total	3,189	4,292	3,800	5,907	2,417	10,864

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.

2. Excludes Medical School Data.

SOURCE: Data provided by Temple University, 2022; 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 2021-22,
Change from 2020-21 and Five-Year Average Annual Rate of Change
(2016-17 to 2021-22)**

State-related University	Undergraduate											
	Lower division			Upper division			Total undergraduate			Master's		
	Class size	Percent change		Class size	Percent change		Class size	Percent change		Class size	Percent change	
		One-year	Five-year average		One-year	Five- year average		One-year	Five-year average		One-year	Five-year average
Lincoln	17	3%	-2%	13	-7%	1%	16	1%	-1%	7	-9%	-11%
Penn State	27	4	-2	22	a	-2	24	a	-2	13	-7	a
Pittsburgh	31	a	1	24	-4	a	28	-3	1	16	a	a
Temple	30	-3	-2	24	-7	-2	26	-7	-2	15	-6	-2
Average	28	a	-1	22	-4	-2	25	a	-2	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.

a. Rounds to less than 1 percent.

SOURCE: Data provided by the individual universities, 2017 to 2022.

TABLE 10

**Academic Year Tuition and Required Fees
for Full-Time Students by Academic Level and Residence 2021-22,
Change from 2020-21 and Five-Year Average Annual Rate of Change (2016-17 to 2021-22)**

State-related University	Undergraduate						Graduate ¹					
	In-State			Out-of-State			In-State			Out-of-State		
	Tuition and required fees	Percent change		Tuition and required fees	Percent change		Tuition and required fees	Percent change		Tuition and required fees	Percentage change	
		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average		One-year	Five-year average
Lincoln	11,556	3%	1%	11,274	a	a	17,912	3%	1%	18,942	1%	a
Penn State ²	18,898	2	1	23,719	3%	3%	36,476	3	2	39,778	3	2%
Pittsburgh ²	20,362	3	2	25,248	3	2	35,394	5	4	42,024	3	3
Temple	17,378	2	1	18,278	2	2	30,602	2	2	24,812	2	2
Average	17,049	3	1	19,630	3	2	30,096	3	3	31,389	2	2

1. Excludes first-professional level.

2. Main campus data only.

na. Not applicable.

a. Rounds to less than 1 percent.

SOURCE: Pennsylvania Department of Education, National Center for Education Statistics, 2022.

TABLE 11

**Tuition and Fee Revenues
Related to Full-Time Equivalent Students¹ 2021-22,
Change from 2020-21 and Five-Year Average Annual Rate of Change (2016-17 to 2021-22)**

State-related University	Total tuition and fee revenues			Tuition and fee revenues per FTE student			
	Amount (000s)	Percent change		Amount	One-Year change	Percent change	
		One-year	Five-year average			One-year	Five-year average
Lincoln	\$25,965	-1%	a	\$14,776	601	4%	1%
Penn State	1,942,433	2	1%	22,622	734	3	2
Pittsburgh	865,534	7	3	26,440	1430	6	4
Temple	931,205	-1	1	27,678	756	3	3
Total	3,765,137	2	1	24,449	877	4	3

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 and FTE Students data provided by the individual State-related universities 2017 to 2022.

TABLE 12

**Commonwealth Instructional Appropriations
Related to Full-Time Equivalent Students¹ 2021-22,
Change from 2020-21 and Five-Year Average Annual Rate of Change (2016-17 to 2021-22)**

State-related University	Total instructional appropriations			Instructional appropriations per FTE student			
	Amount (000s)	Percent change		Amount	One-year change	Percent change	
		One-year	Five-year average			One-year	Five-year average
Lincoln	\$15,166	0	1%	\$8,631	440	5%	3%
Penn State	242,096	0	1	2,820	39	1	2
Pittsburgh	175,484	6	3	5,361	261	5	3
Temple	158,206	0	1	4,702	187	4	3
Total	590,952	2	2	3,837	122	3	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.

a. Rounds to less than 1 percent.

SOURCE: Instructional appropriations - Governor's Executive Budget, 2016-17 to 2021-22; data provided by the individual State-related universities. FTE students-data provided by the individual universities 2016 to 2022.

TABLE 13

**Tuition and Fee Revenues, Commonwealth Instructional Appropriations and Student Aid
Related to Full-Time Equivalent Students¹ 2021-22,
Change From 2020-21 and Five-Year Average Annual Rate of Change (2016-17 to 2021-22)**

State-related 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
Lincoln	14,776	8,631	23,407	37%	a	1%
Penn State	22,622	2,820	25,442	11	1%	a
Pittsburgh	26,440	5,361	31,800	17	-1	1
Temple	27,678	4,702	32,380	15	4	-2
Average	24,449	3,837	28,286	14	-3	-4

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.

a. Rounds to less than 1 percent.

SOURCE: Tuition and fee revenues - State-related data provided by the individual universities, 2022.

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
2016-17 to 2021-22**

State-related University	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Lincoln						
Total	1,904	2,141	2,185	2,047	1,852	1,757
Undergraduate	1,693	1,912	1,973	1,878	1,713	1,639
Graduate	212	230	212	169	139	118
Penn State						
Total	90,717	90,283	88,526	88,127	87,059	85,864
Undergraduate	81,586	80,683	78,627	77,974	76,222	74,746
Graduate	9,131	9,600	9,899	10,153	10,837	11,118
Pittsburgh						
Total	33,840	33,617	33,737	32,790	32,461	32,736
Undergraduate	25,444	25,377	25,352	24,442	24,255	24,322
Graduate	8,396	8,240	8,385	8,348	8,206	8,414
Temple						
Total	37,236	37,374	37,406	36,659	35,043	33,645
Undergraduate	29,574	30,066	29,961	29,352	27,816	26,579
Graduate	7,662	7,308	7,445	7,307	7,228	7,065

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, includes first-professional (excluding medical schools) and/or doctor's levels.

SOURCE: Data provided by the individual universities, 2017 to 2022.

HISTORICAL TABLE 2
Student Credit Hours by Academic Division and Level¹
Total Year and Summer
(in thousands)
2016-17 to 2021-22

State-related University	Total Year								Summer		
	Lower division	Upper division	Total under-graduate	Master's	First professional	Doctor's	Total graduate	Grand total	Total under-graduate	Total graduate	Grand total
Lincoln											
2016-17	39	12	51	5	na	na	5	56	a	a	1
2017-18	44	13	57	6	na	na	6	63	a	1	1
2018-19	45	15	59	5	na	na	5	64	a	1	1
2019-20	40	16	56	4	na	na	4	60	a	1	1
2020-21	36	15	51	3	na	na	3	55	1	1	2
2021-22	36	13	49	3	na	na	3	52	2	1	2
Penn State											
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
2018-19	1,232	1,127	2,359	129	19	90	238	2,596	165	29	194
2019-20	1,195	1,144	2,339	132	18	93	244	2,583	159	32	191
2020-21	1,170	1,116	2,287	151	19	90	260	2,547	171	32	203
2021-22	1,169	1,073	2,242	155	20	92	267	2,509	154	34	188
Pittsburgh											
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
2018-19	484	276	761	131	47	23	201	962	38	26	65
2019-20	460	273	733	128	47	26	200	934	39	26	65
2020-21	465	263	728	123	47	27	197	925	39	25	64
2021-22	465	264	730	128	47	27	202	932	34	25	59
Temple											
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
2018-19	392	507	899	95	60	23	179	1,078	42	26	68
2019-20	385	496	881	88	63	25	175	1,056	40	26	66
2020-21	354	481	834	87	62	24	173	1,056	42	21	63
2021-22	356	441	797	83	63	24	170	967	38	26	64

1. Data for each year represent the summer term preceding the academic year plus the academic year. The first-professional levels exclude medical school data.

a. Rounds to less than one thousand student credit hours.

na. Not applicable.

SOURCE: Data provided by the individual universities, 2017 to 2022.

HISTORICAL TABLE 3

**Degrees Conferred¹
2016-17 to 2021-22**

State-related University	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Lincoln						
Total	405	384	463	454	518	462
Bachelor's	279	259	358	350	446	377
Graduate	126	125	105	104	72	85
Penn State						
Total	20,576	21,446	20,963	22,067	21,145	20,521
Bachelor's	16,299	17,089	16,509	17,461	16,684	15,638
Graduate	4,277	4,357	4,454	4,606	4,461	4,883
Pittsburgh						
Total	9,157	9,048	8,940	8,851	8,613	8,401
Bachelor's	5,533	5,655	5,664	5,762	5,724	5,585
Graduate	3,624	3,393	3,276	3,089	2,889	2,816
Temple						
Total	9,103	9,718	10,029	10,128	9,410	8,903
Bachelor's	6,456	6,472	6,749	7,095	6,561	6,221
Graduate	2,647	3,246	3,280	3,033	2,849	2,682

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

SOURCE: Data provided by the individual universities, 2017 to 2022.

HISTORICAL TABLE 4

**Number and Average Weekly Student Contact Hours
of Full-Time Employed Faculty by Academic Level¹
Fall 2016 to Fall 2021**

State-related University	Full-time employee						Undergraduate Average weekly student contact hours						Graduate Average weekly student contact hours					
	2016	2017	2018	2019	2020	2021	2016	2017	2018	2019	2020	2021	2016	2017	2018	2019	2020	2021
Lincoln	96	100	101	105	107	109	10.6	11.3	9.6	8.8	9.0	8.9	1.0	0.5	0.5	0.5	0.7	0.6
Penn State	4,276	4,246	4,377	4,439	4,302	3,672	9.6	9.7	9.6	9.6	10.4	9.8	2.8	2.8	2.9	2.8	3.0	2.7
Pittsburgh	2,068	2,084	2,095	2,170	2,173	2,175	4.8	5.2	5.1	5.0	5.0	4.7	2.4	2.4	2.4	2.3	2.3	2.3
Temple	1,478	1,401	1,349	1,374	1,144	1,032	5.2	5.3	5.4	5.4	5.5	5.3	2.5	2.5	2.5	2.6	2.6	2.6
Total	7,918	7,831	7,922	8,090	7,726	6,988	7.6	7.7	7.7	7.7	8.1	7.5	2.6	2.6	2.7	2.6	2.7	2.5

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, 2017 to 2022

HISTORICAL TABLE 5

Number and Average Instructional Salaries of Full-Time Equivalent Instructional Faculty by Rank¹ 2021-22, Change from 2020-21 and Five-Year Average Annual Rate of Change (2016-17 to 2021-22) (in thousands)

State-related University	FTE Instructional Faculty	All Faculty	Professor	Associate Professor	Assistant Professor	Instructor	No Rank ²
Lincoln							
2016-17	\$155	\$48	\$87	\$69	\$59	\$20	\$53
2017-18	164	51	93	69	65	21	59
2018-19	175	50	97	75	66	19	58
2019-20	173	51	95	75	64	20	62
2020-21	183	48	95	69	66	17	62
2021-22	180	51	93	72	66	19	58
Penn State							
2016-17	4,977	80	133	92	78	56	60
2017-18	4,906	83	136	96	81	60	65
2018-19	5,048	84	139	99	84	61	66
2019-20	5,119	86	142	100	87	64	63
2020-21	4,793	84	146	99	87	63	52
2021-22	4,182	86	147	108	90	65	52
Pittsburgh							
2016-17	2,193	69	122	78	64	35	58
2017-18	2,213	66	129	78	66	36	51
2018-19	2,225	73	131	80	68	38	60
2019-20	2,237	72	134	81	70	39	61
2020-21	2,332	69	138	82	69	41	57
2021-22	2,339	70	137	82	70	44	61
Temple							
2016-17	1,920	47	121	70	29	22	13
2017-18	1,929	68	122	84	61	42	47
2018-19	1,970	68	122	84	61	44	40
2019-20	1,975	71	124	85	62	47	48
2020-21	1,885	72	127	85	66	62	23
2021-22	1,895	73	133	88	68	65	21

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, 2017 to 2022.

HISTORICAL TABLE 6

Average Instructional Faculty Salary Cost Per Full-Time Equivalent Student by Academic Division and Level¹ 2016-17 to 2021-22

State-related University	Lower Division						Upper Division						Total Undergraduate						Master's					
	2016- 17	2017- 18	2018- 19	2019- 20	2020- 21	2021- 22	2016- 17	2017- 18	2018- 19	2019- 20	2020- 21	2021- 22	2016- 17	2017- 18	2018- 19	2019- 20	2020- 21	2021- 22	2016- 17	2017- 18	2018- 19	2019- 20	2020- 21	2021- 22
Lincoln	\$3,242	\$3,193	\$3,185	\$3,680	\$4,176	\$4,381	\$6,035	\$6,224	\$6,242	\$5,344	\$5,586	\$6,742	\$3,908	\$3,877	\$3,943	\$4,150	\$4,599	\$4,997	\$4,042	\$4,227	\$4,864	\$6,368	\$7,063	\$9,069
Penn State	3,756	3,811	4,099	4,378	4,059	3,576	4,530	4,669	4,892	5,036	4,640	4,265	4,124	4,217	4,478	4,700	4,343	3,906	6,412	6,246	6,750	6,872	6,357	5,878
Pittsburgh	2,945	3,093	3,224	3,307	3,350	3,303	4,745	4,935	5,054	5,433	5,089	5,410	3,580	3,755	3,888	4,099	3,977	4,066	5,215	5,608	5,625	6,073	6,647	6,214
Temple	2,131	2,735	2,877	2,991	3,054	3,189	1,849	3,640	3,779	3,982	3,937	4,292	2,523	3,230	3,386	3,549	3,563	3,799	3,522	4,859	4,977	5,566	5,637	5,907
Total	3,130	3,408	3,623	3,821	3,711	3,471	4,032	4,407	4,585	4,782	4,531	4,468	3,548	3,873	4,077	4,283	4,105	3,939	5,535	5,841	6,090	6,528	6,332	5,993

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, 2017 to 2022.

HISTORICAL TABLE 7
Average Instructional Faculty Salary Cost
Per Student Credit Hour
by Academic Division and Level¹
2016-17 to 2021-22

State-related university	Lower Division						Upper Division						Total Undergrade						Master's					
	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Lincoln	\$108	\$106	\$106	\$123	\$139	\$146	\$201	\$207	\$208	\$178	\$186	\$225	\$130	\$129	\$131	\$138	\$153	\$167	\$168	\$176	\$203	\$265	\$294	\$378
Penn State	125	127	137	146	135	119	151	156	163	168	155	142	137	141	149	157	145	130	267	260	281	286	265	245
Pittsburgh	98	103	107	110	112	110	158	165	168	181	170	180	119	125	130	137	133	136	217	234	234	253	277	259
Temple	62	91	96	100	102	106	84	121	126	133	131	143	74	108	113	118	119	127	147	249	236	232	234	239
Total	104	114	121	127	124	116	134	147	153	159	151	149	118	129	136	143	137	131	231	243	254	272	264	250

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, 2017 to 2022.

HISTORICAL TABLE 8

**Average Class Sizes in Classroom Instruction
by Academic Division and Level¹
2016-17 to 2021-22**

State-related university	Lower Division						Upper Division						Total Undergrade						Master's					
	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Lincoln	19	21	20	19	17	17	13	13	12	14	14	13	17	19	17	17	16	16	13	13	11	9	8	7
Penn State	30	29	28	27	26	27	24	23	22	23	22	22	27	25	25	25	24	24	14	14	13	14	14	13
Pittsburgh	29	29	28	28	31	31	24	24	24	23	25	24	27	27	26	26	28	28	16	16	16	16	16	16
Temple	29	33	32	32	31	30	27	26	26	26	26	24	29	29	29	29	28	26	17	18	17	17	16	15
Total	30	29	28	28	28	28	24	24	23	24	23	22	27	26	26	26	25	25	15	15	15	15	15	15

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, 2017 to 2022.

HISTORICAL TABLE 9

**Commonwealth Instructional Appropriations¹
2016-17 to 2021-22
(in millions)**

State-related University	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Lincoln	\$14.4	\$14.4	\$14.9	\$15.2	\$15.2	\$15.2
Penn State	230.4	230.4	237.3	242.1	242.1	242.1
Pittsburgh	143.3	152.9	157.6	165.5	165.5	175.4
Temple	150.6	150.6	155.1	158.2	158.2	158.2
Total	538.8	548.3	564.9	581.0	581.0	591.0

1. Instructional appropriations include educational and general appropriations. Excludes medical school data.

SOURCE: Instructional appropriations - Governor's Executive Budget, 2016-17 to 2021-22; data provided by the individual State-related universities 2017 to 2022.

HISTORICAL TABLE 10

**Academic Year Tuition and Required Fees
for Full-Time Students
by Academic Level and Residence
2016-17 to 2021-2022**

State-related University	Undergraduate		Graduate ¹	
	In-State	Out-of-State	In-State	Out-of-State
Lincoln				
2016-17	\$11,102	\$16,733	\$11,420	\$18,950
2017-18	11,379	17,151	11,615	19,145
2018-19	11,036	16,952	11,420	18,950
2019-20	11,266	17,468	11,420	18,950
2020-21	11,266	17,468	11,274	18,804
2021-22	11,556	17,912	11,274	18,942
Penn State				
2016-17	17,900	32,382	20,912	35,214
2017-18	18,436	33,664	21,752	36,606
2018-19	18,454	34,858	22,578	38,012
2019-20	18,450	35,514	22,994	38,728
2020-21	18,450	35,514	22,994	38,728
2021-22	18,898	36,476	23,719	39,778
Pittsburgh				
2016-17	18,618	29,758	22,578	36,734
2017-18	19,080	30,642	22,060	35,744
2018-19	19,080	32,052	23,696	39,586
2019-20	19,718	33,746	24,480	40,848
2020-21	19,679	33,706	24,468	40,836
2021-22	20,362	35,394	25,248	42,042
Temple				
2016-17	16,274	27,266	16,676	22,526
2017-18	16,658	28,418	17,054	23,048
2018-19	16,970	29,066	17,378	23,588
2019-20	16,970	29,882	17,846	24,236
2020-21	16,970	29,882	17,846	24,236
2021-22	17,378	30,602	18,278	24,812

1. Excludes first-professional level.

SOURCE: Pennsylvania Department of Education, National Center for Education Statistics, (December 2022).

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:

$$\begin{array}{r}
 \text{FTE} \\
 \text{instructional} \\
 \text{faculty salaries} \\
 \text{student credit hours}
 \end{array}
 =
 \underbrace{\begin{array}{r}
 \text{Number of FTE} \\
 \text{instructional faculty}
 \end{array}}_{\begin{array}{r}
 \text{Number} \\
 \text{of courses}
 \end{array}}
 \times
 \underbrace{\begin{array}{r}
 \text{Average} \\
 \text{course} \\
 \text{(assigned)} \\
 \text{credit value}
 \end{array}}_{\begin{array}{r}
 \text{Average} \\
 \text{class} \\
 \text{(section)} \\
 \text{size}
 \end{array}}
 \times
 \underbrace{\begin{array}{r}
 \text{Average FTE} \\
 \text{instructional faculty salary}
 \end{array}}_{\begin{array}{r}
 \text{Number} \\
 \text{of classes} \\
 \text{(sections)} \\
 \text{Number} \\
 \text{of courses}
 \end{array}}
 \end{array}$$

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.