

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 2020-21
Data Reported Under the Public School Code Of 1949*

February 2022



*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 400 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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February 2022

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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 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.

This year's report is the 49th of the annual volumes. Act 50 of 2020 eliminated the requirement for the PASSHE universities to report their data to the Commission. They have not been included since the 2020 edition.

Sincerely,

Glenn J. Pasewicz
Executive Director

49th 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 2020-21 and data trends for 2015-16 to 2020-21 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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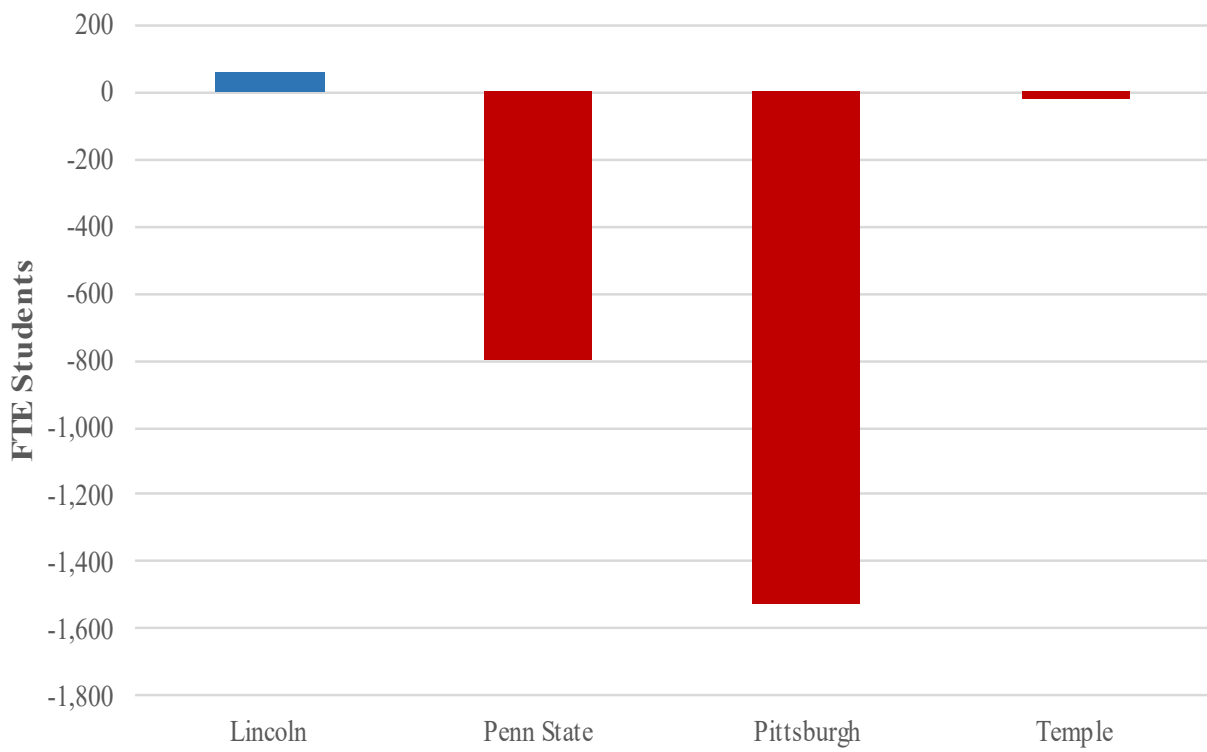
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**STATE-RELATED UNIVERSITIES
FTE STUDENT ENROLLMENT CHANGES
2015-2016 TO 2020-2021**

State-Related Universities



CURRENT YEAR DATA TABLES

TABLE 1

**Full-Time Equivalent Students by Academic Level¹
2020-21, Change from 2019-20 and Five-Year Average Annual Rate of Change (2015-16 to 2020-21)**

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	1,852	-195	-10%	1%	1,713	-165	-9%	2%	139	-30	-18%	-5%
Penn State	87,059	-1,068	-1	a	76,222	-1,752	-2	-1	10,837	684	7	5
Pittsburgh	32,461	-329	-1	-1	24,255	-187	-1	-1	8,206	-142	-2	-1
Temple	35,043	-1,616	-4	a	27,816	-1,537	-5	a	7,228	-79	-1	1
Total	156,415	-3,207	-2	a	130,005	-3,640	-3	-1	26,410	433	2	2

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

2. 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, 2016 to 2021.

TABLE 2

**Full-Time Equivalent Students by Academic Division and Level¹
2020-21, Change from 2019-20 and Five-Year Average Annual Rate of Change (2015-16 to 2020-21)**

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	1,198	-11%	a	514	-3%	5%	139	-18%	-5%	na	na	na
Penn State	39,016	-2	-1%	37,206	-2	a	6,311	15	9	4,526	-3%	a
Pittsburgh	15,503	1	-1	8,752	-4	a	5,117	-4	-2	3,089	3	1%
Temple	11,791	-8	-1	16,025	-3	1	3,608	-1	2	3,620	-1	1
Total	67,508	-3	-1	62,497	-3	a	15,176	3	3	11,235	-1	a

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

2. Excludes medical school data.

a. Rounds to less than 1 percent.

na. Not applicable.

SOURCE: Data provided by the individual universities, 2016 to 2021.

TABLE 3-A
Lincoln University
Number and Percentage Distribution of Full-Time Equivalent Students¹
by Academic Division and Level and CIP Classification
2020-21

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	32	2%	28	2%	3	1%	--	--
Business	161	9	39	3	93	18	29	21%
Communications	73	4	27	2	46	9	--	--
Computer and Information Sciences and Support Services	54	3	42	4	12	2	--	--
Personal and Culinary Services	--	--	--	--	--	--	--	--
Education	67	4	1	a	--	--	66	47
Engineering	--	--	--	--	--	--	--	--
Foreign Languages, Literature, and Linguistics	60	3	55	5	5	1	--	--
Health Professions and Related Clinical Sciences	150	8	78	7	72	14	--	--
Family and Consumer Sciences/Human Sciences	--	--	--	--	--	--	--	--
Legal Professions and Studies	--	--	--	--	--	--	--	--
English Language and Literature/Letters	180	10	155	13	25	5	--	--
Liberal Arts and Sciences, General Studies and Humanities	--	--	--	--	--	--	--	--
Library Science	--	--	--	--	--	--	--	--
Biological and Biomedical Sciences	142	8	116	10	27	5	--	--
Mathematics and Statistics	156	8	154	13	2	a	--	--
Military Technologies	--	--	--	--	--	--	--	--
Multi/Interdisciplinary Studies	--	--	--	--	--	--	--	--
Parks, Recreation, Leisure, and Fitness Studies	--	--	--	--	--	--	--	--
Personal and Social Development	--	--	--	--	--	--	--	--
Philosophy and Religion/Theology	87	5	77	6	10	2	--	--
Physical Sciences	79	4	73	6	6	1	--	--
Psychology	87	5	47	4	38	7	1	1
Security and Protective Services/Public Administration and Services	187	10	65	5	83	16	40	29
Social Sciences and History	194	10	112	9	79	15	3	2
Trade and Industrial	--	--	--	--	--	--	--	--
Visual and Performing Arts	125	7	112	9	13	3	--	--
Other	18	1	18	1	--	--	--	--
Total ²	1,852	100	1,198	100	514	100	139	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, 2021; 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
2020-21

CIP Classification	Total	Percent of total	Undergraduate				Graduate	Percent of total
			Lower Division	Percent of total	Upper Division	Percent of total		
Agriculture	1,399	2%	634	2%	618	2%	146	1%
Architecture and Related Services	534	1	240	1	233	1	61	1
Area, Ethnic, Cultural, and Gender Studies	967	1	721	2	188	1	58	1
Business	10,543	12	1,876	5	6,539	18	2,128	20
Communications	4,432	5	2,698	7	1,607	4	128	1
Computer and Information Sciences and Support Services	4,574	5	1,740	4	2,270	6	563	5
Personal and Culinary Services	--	--	--	--	--	--	--	--
Education	2,197	3	163	a	1,129	3	904	8
Engineering	8,073	9	1,727	4	4,577	12	1,769	16
Foreign Languages, Literature, and Linguistics	3,187	4	1,433	4	1,634	4	120	1
Health Professions and Related Clinical Sciences	3,152	4	653	2	1,904	5	595	5
Family and Consumer Sciences/Human Sciences	1,949	2	1,007	3	831	2	112	1
Legal Professions and Studies	866	1	--	--	--	--	866	8
English Language and Literature/Letters	4,030	5	3,201	8	752	2	78	1
Liberal Arts and Sciences, General Studies and Humanities	89	a	43	a	43	a	2	a
Library Science	--	--	--	--	--	--	--	--
Biological and Biomedical Sciences	5,118	6	2,525	6	2,145	6	448	4
Mathematics and Statistics	8,074	9	5,170	13	2,497	7	407	4
Military Technologies	85	--	40	a	45	a	--	--
Multi/Interdisciplinary Studies	1,095	1	348	1	275	1	472	4
Parks, Recreation, Leisure, and Fitness Studies	1,835	2	468	1	1,318	4	49	a
Personal and Social Development	10	a	3	a	7	a	--	--
Philosophy and Religion/Theology	980	1	753	2	192	1	36	a
Physical Sciences	6,930	8	4,501	12	1,811	5	618	6
Psychology	3,369	4	1,590	4	1,443	4	336	3
Security and Protective Services/Public Administration and Services	1,623	2	715	2	670	2	238	2
Social Sciences and History	8,222	9	4,644	12	3,018	8	560	5
Trade and Industrial	7	a	--	--	7	a	--	--
Visual and Performing Arts	3,719	4	2,124	5	1,453	4	142	1
Other	--	--	--	--	--	--	--	--
Total ²	87,059	100	39,016	100	37,206	100	10,837	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, 2021; 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
2020-21

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	256	1%	165	1%	87	1%	4	a
Business	2,161	7	423	3	1,202	14	537	7%
Communications	--	--	--	--	--	--	--	--
Computer and Information Sciences and Support Services	1,209	4	526	3	409	5	274	3
Personal and Culinary Services	--	--	--	--	--	--	--	--
Education	1,019	3	183	1	320	4	516	6
Engineering	2,776	9	921	6	1,146	13	709	9
Foreign Languages, Literature, and Linguistics	1,489	5	1,018	7	388	4	83	1
Health Professions and Related Clinical Sciences	5,063	16	479	3	1,019	12	3,564	43
Family and Consumer Sciences/Human Sciences	--	--	--	--	--	--	--	--
Legal Professions and Studies	551	2	--	--	4	a	547	7
English Language and Literature/Letters	2,458	8	1,891	12	495	6	71	1
Liberal Arts and Sciences, General Studies and Humanities	--	--	--	--	--	--	--	--
Library Science	117	a	22	a	2	a	94	1
Biological and Biomedical Sciences	1,856	6	988	6	737	8	131	2
Mathematics and Statistics	2,030	6	1,385	9	467	5	178	2
Military Technologies	20	a	7	a	14	a	--	--
Multi/Interdisciplinary Studies	1,216	4	829	5	365	4	22	a
Parks, Recreation, Leisure, and Fitness Studies	--	--	--	--	--	--	--	--
Personal and Social Development	--	--	--	--	--	--	--	--
Philosophy and Religion/Theology	519	2	347	2	141	2	31	a
Physical Sciences	2,763	9	2,212	14	290	3	261	3
Psychology	1,765	5	1,174	8	386	4	205	2
Security and Protective Services/Public Administration and Services	962	3	78	1	145	2	740	9
Social Sciences and History	3,150	10	1,994	13	982	11	173	2
Trade and Industrial	--	--	--	--	--	--	--	--
Visual and Performing Arts	1,082	3	859	6	154	2	70	1
Other	--	--	--	--	--	--	--	--
Total ²	32,461	100	15,503	100	8,752	100	8,206	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, 2021; 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
2020-21**

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	347	1%	94	1%	176	1%	76	1%
Area, Ethnic, Cultural, and Gender Studies	401	1	167	1	224	1	10	a
Business	5,643	16	1,391	12	3,163	20	1,090	15
Communications	2,528	7	768	7	1,619	10	141	2
Computer and Information Sciences and Support Services	796	2	215	2	526	3	55	1
Personal and Culinary Services	--	--	--	--	--	--	--	--
Education	1,368	4	402	3	527	3	439	6
Engineering	1,270	4	420	4	782	5	68	1
Foreign Languages, Literature, and Linguistics	957	3	441	4	500	3	16	a
Health Professions and Related Clinical Sciences	4,057	12	410	3	806	5	2,841	39
Family and Consumer Sciences/Human Sciences	--	--	--	--	--	--	--	--
Legal Professions and Studies	1,311	4	165	1	116	1	1,031	14
English Language and Literature/Letters	1,086	3	735	6	316	2	35	a
Liberal Arts and Sciences, General Studies and Humanities	1,343	4	817	7	523	3	3	a
Library Science	--	--	--	--	--	--	--	--
Biological and Biomedical Sciences	864	2	260	2	517	3	87	1
Mathematics and Statistics	1,370	4	968	8	378	2	23	a
Military Technologies	--	--	--	--	--	--	--	--
Multi/Interdisciplinary Studies	48	a	28	a	9	a	12	a
Parks, Recreation, Leisure, and Fitness Studies	1,342	4	369	3	813	5	161	2
Personal and Social Development	--	--	--	--	--	--	--	--
Philosophy and Religion/Theology	579	2	229	2	328	2	22	a
Physical Sciences	1,573	4	697	6	778	5	99	1
Psychology	1,718	5	624	5	837	5	258	4
Security and Protective Services/Public Admin. and Services	948	3	213	2	418	3	317	4
Social Sciences and History	2,825	8	1,335	11	1,337	8	153	2
Trade and Industrial	--	--	--	--	--	--	--	--
Visual and Performing Arts	2,668	8	1,043	9	1,333	8	293	4
Other	--	--	--	--	--	--	--	--
Total ²	35,043	100	11,791	100	16,025	100	7,228	1

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, 2021; 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
2020-21, Change from 2019-20 and Five-Year Average Annual Rate of Change (2015-16 To 2020-21)**

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	518	64	14%	5%	446	96	27%	9%	72	-32	-31%	-4%
Penn State	21,145	-922	-4	1	16,684	-777	-4	1	4,461	-145	-3	2
Pittsburgh	8,613	-238	-3	-1	5,724	-38	-1	1	2,889	-200	-6	-4
Temple	9,410	-718	-7	2	6,561	-534	-8	1	2,849	-184	-6	3
Total	39,686	-1,814	-4	1	29,415	-1,253	-4	1	10,271	-561	-5	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, 2016 to 2021.

TABLE 5

**Number and Workweeks of Full-Time Employed Faculty by Type of Activity
Fall 2020, and Percentage Change from Fall 2019**

State-related 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
Lincoln	107	9.0	3%	0.7	31%	19.9	27%	10.2	18%	12.7	a	52.5	13%
Penn State	4,302	10.4	8	3.0	6	14.8	9	14.2	-3	7.9	-5%	50.2	2
Pittsburgh	2,173	5.0	-1	2.3	-2	15.1	9	20.2	-2	9.6	a	52.1	1
Temple	1,144	5.5	1	2.6	a	19.1	26	12.3	7	9.6	13	49.2	14
Total	7,726	8.1	5	2.7	3	15.6	12	15.6	-1	8.7	a	50.6	4

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, 2020 to 2021

TABLE 6

**Number and Average Instructional Salaries of Full-Time Equivalent Instructional Faculty
and Percentage Distribution by Rank¹
2020-21
(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
		2019-20 to 2020-21		2019-20 to 2020-21										
Lincoln	183	6%	\$48,459	-5%	\$94,813	26%	\$69,435	18%	\$66,326	33%	\$17,492	16%	\$61,974	7%
Penn State	4,793	-6	84,116	-2	146,600	29	99,385	19	86,856	15	63,183	24	51,559	13
Pittsburgh	2,332	-4	69,164	-4	138,876	28	81,512	20	69,384	20	41,807	7	57,029	23
Temple	1,885	-5	72,011	1	127,100	28	85,355	27	66,050	24	62,308	15	23,212	6
Total	9,261	-3	77,153	-2	140,030	30	89,757	21	71,157	16	58,682	19	47,135	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, 2020 to 2021.

TABLE 7

**Average Instructional Faculty Salary Cost Per Full-Time Equivalent Student
by Academic Division and Level¹ 2020-21,
Change from 2019-20 and Five-Year Average Annual Rate of Change (2015-16 to 2020-21)**

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	\$4,176	13%	4%	\$5,586	5%	-3%	\$4,599	11%	2%	\$7,063	11%	10%
Penn State	4,059	-7	1	4,640	-8	1	4,343	-8	1	6,357	-7	-1
Pittsburgh	3,350	1	3	5,089	-6	2	3,977	-3	3	6,647	9	4
Temple	3,054	2	10	3,937	-1	8	3,563	a	9	5,637	1	10
Total	3,711	-29	34	4,531	-5	3	4,105	-4	3	6,332	-3	3

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, 2016 to 2021.

TABLE 8A

**Lincoln University
Average Instructional Faculty Salary Cost Per Full-Time Equivalent Student¹
by Academic Division and Level and CIP Classification
2020-21**

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	\$1,732	\$8,382	\$2,448	--	--	--
Business	2,804	4,255	3,826	\$6,794	--	--
Communications	6,329	5,122	5,568	--	--	--
Computer and Information Sciences and Support Services	4,640	8,538	5,498	--	--	--
Personal and Culinary Services	--	--	--	--	--	--
Education	7,441	--	7,441	5,761	--	--
Engineering	--	--	--	--	--	--
Foreign Languages, Literature, and Linguistics	3,624	10,847	4,239	--	--	--
Health Professions and Related Clinical Sciences	6,532	8,049	7,261	--	--	--
Family and Consumer Sciences/Human Sciences	--	--	--	--	--	--
Legal Professions and Studies	--	--	--	--	--	--
English Language and Literature/Letters	3,257	5,514	3,569	--	--	--
Liberal Arts and Sciences, General Studies and Humanities	--	--	--	--	--	--
Library Science	--	--	--	--	--	--
Biological and Biomedical Sciences	3,745	7,331	4,418	--	--	--
Mathematics and Statistics	3,997	22,100	4,240	--	--	--
Military Technologies	--	--	--	--	--	--
Multi/Interdisciplinary Studies	--	--	--	--	--	--
Parks, Recreation, Leisure, and Fitness Studies	--	--	--	--	--	--
Personal and Social Development	--	--	--	--	--	--
Philosophy and Religion/Theology	3,189	9,703	3,909	--	--	--
Physical Sciences	8,547	16,160	9,154	--	--	--
Psychology	4,345	4,486	4,408	6,030	--	--
Security and Protective Services/Public Admin. and Services	3,076	3,337	3,222	3,807	--	--
Social Sciences and History	4,202	5,548	4,759	5,714	--	--
Trade and Industrial	--	--	--	--	--	--
Visual and Performing Arts	4,917	10,190	5,462	--	--	--
Other	1,557	--	1,557	--	--	--
Total	4,176	5,586	4,599	7,063	--	--

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, 2021; 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
2020-21**

CIP Classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional ²	Doctor's
Agriculture	\$4,078	\$5,125	\$4,595	\$12,352	--	\$7,995
Architecture and Related Services	4,383	7,974	6,154	16,758	--	9,070
Area, Ethnic, Cultural, and Gender Studies	4,253	9,154	5,268	10,057	--	10,079
Business	4,225	5,583	5,280	5,422	--	10,764
Communications	3,924	4,657	4,197	6,125	--	4,477
Computer and Information Sciences and Support Services	4,646	4,598	4,619	4,721	--	2,139
Personal and Culinary Services	--	--	--	--	--	--
Education	5,670	5,519	5,538	5,706	--	7,237
Engineering	5,129	5,092	5,102	7,119	--	5,339
Foreign Languages, Literature, and Linguistics	4,511	4,729	4,627	4,838	--	5,548
Health Professions and Related Clinical Sciences	4,381	4,267	4,296	10,277	--	10,364
Family and Consumer Sciences/Human Sciences	2,708	5,042	3,763	9,809	--	8,258
Legal Professions and Studies	--	--	--	7,707	--	33,175
English Language and Literature/Letters	4,262	5,671	4,530	6,016	\$10,095	4,474
Liberal Arts and Sciences, General Studies and Humanities	8,268	8,561	8,414	35,765	--	--
Library Science	99,240	--	99,240	--	--	--
Biological and Biomedical Sciences	2,693	3,256	2,952	8,646	--	7,181
Mathematics and Statistics	3,195	3,557	3,313	3,415	--	4,411
Military Technologies	--	--	--	--	--	--
Multi/Interdisciplinary Studies	7,068	8,530	7,714	6,613	--	12,899
Parks, Recreation, Leisure, and Fitness Studies	4,774	4,896	4,864	15,518	--	8,390
Personal and Social Development	5,280	10,085	8,549	--	--	32,735
Philosophy and Religion/Theology	4,662	5,990	4,931	2,902	--	3,694
Physical Sciences	3,535	2,441	3,221	9,654	--	5,330
Psychology	3,058	4,906	3,937	8,075	--	8,579
Security and Protective Services/Public Administration and Services	4,504	5,031	4,759	5,616	--	6,491
Social Sciences and History	3,489	4,862	4,030	10,127	--	8,872
Trade and Industrial	--	17,470	17,470	--	--	--
Visual and Performing Arts	3,524	4,933	4,096	17,169	--	5,572
Other	--	--	--	--	--	--
Total	4,059	4,640	4,343	6,357	10,095	6,572

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, 2021; 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
2020-21**

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	\$3,478	\$4,432	\$3,806	\$5,522	--	--
Business	3,591	5,186	4,770	5,676	\$22,399	\$40,936
Communications	--	--	--	--	--	--
Computer and Information Sciences and Support Services	2,945	4,267	3,523	10,675	6,198	44,603
Personal and Culinary Services	--	--	--	--	--	--
Education	3,172	6,501	5,289	3,974	--	12,414
Engineering	2,752	3,674	3,263	8,623	--	38,585
Foreign Languages, Literature, and Linguistics	4,231	4,742	4,372	8,864	--	45,248
Health Professions and Related Clinical Sciences	3,427	5,423	4,785	6,082	2,024	17,224
Family and Consumer Sciences/Human Sciences	--	--	--	--	--	--
Legal Professions and Studies	--	8,481	8,481	13,993	4,552	--
English Language and Literature/Letters	3,466	6,021	3,996	6,578	--	9,831
Liberal Arts and Sciences, General Studies and Humanities	--	--	--	--	--	--
Library Science	1,891	5,029	2,110	9,443	--	22,352
Biological and Biomedical Sciences	2,682	4,544	3,477	7,451	--	16,192
Mathematics and Statistics	2,982	3,716	3,167	7,371	--	12,241
Military Technologies	--	--	--	--	--	--
Multi/Interdisciplinary Studies	5,401	4,525	5,133	13,707	--	15,834
Parks, Recreation, Leisure, and Fitness Studies	--	--	--	--	--	--
Personal and Social Development	--	--	--	--	--	--
Philosophy and Religion/Theology	3,607	6,332	4,394	15,381	--	96,928
Physical Sciences	3,094	9,432	3,829	5,502	--	20,106
Psychology	1,854	6,130	2,912	7,084	5,304	14,479
Security and Protective Services/Public Administration and Services	4,043	6,180	5,433	5,445	11,754	22,118
Social Sciences and History	2,442	5,653	3,502	18,349	--	16,091
Trade and Industrial	--	--	--	--	--	--
Visual and Performing Arts	3,720	7,878	4,351	9,731	--	27,555
Other	--	--	--	--	--	--
Total	3,350	5,089	3,977	6,647	2,520	22,644

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, 2021; 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
2020-21**

CIP Classification	Undergraduate			Graduate		
	Lower division	Upper division	Total undergraduate	Master's	First professional ²	Doctor's
Agriculture	--	--	--	--	--	--
Architecture and Related Services	\$3,832	\$5,10	\$4,662	\$7,047	--	--
Area, Ethnic, Cultural, and Gender Studies	1,522	1,961	1,773	5,654	--	\$7,098
Business	2,688	4,165	3,714	5,138	\$2,500	13,237
Communications	2,876	4,064	3,682	7,599	--	13,964
Computer and Information Sciences and Support Services	3,445	5,067	4,597	14,404	--	28,045
Personal and Culinary Services	--	--	--	--	--	--
Education	3,634	4,602	4,183	5,672	--	9,167
Engineering	3,728	4,582	4,284	14,716	--	35,660
Foreign Languages, Literature, and Linguistics	2,591	3,078	2,850	4,608	--	5,682
Health Professions and Related Clinical Sciences	2,498	3,794	3,357	6,475	1,140	5,417
Family and Consumer Sciences/Human Sciences	--	--	--	--	--	--
Legal Professions and Studies	3,103	4,606	3,722	5,677	8,913	--
English Language and Literature/Letters	2,660	2,590	2,639	5,435	--	5,359
Liberal Arts and Sciences, General Studies and Humanities	1,911	2,124	1,994	5,526	--	5,329
Library Science	--	--	--	--	--	--
Biological and Biomedical Sciences	1,868	3,179	2,739	7,875	--	31,252
Mathematics and Statistics	2,245	2,836	2,411	20,117	--	21,493
Military Technologies	--	--	--	--	--	--
Multi/Interdisciplinary Studies	15,516	24,877	17,792	9,117	--	13,892
Parks, Recreation, Leisure, and Fitness Studies	1,537	3,274	2,731	6,768	--	9,918
Personal and Social Development	--	--	--	--	--	--
Philosophy and Religion/Theology	2,632	3,036	2,870	9,891	--	11,615
Physical Sciences	2,328	3,338	2,861	8,118	--	22,212
Psychology	2,518	3,915	3,318	5,652	550	14,008
Security and Protective Services/Public Administration and Services	2,128	3,072	2,754	3,863	1,961	6,625
Social Sciences and History	2,078	3,273	2,675	4,600	--	7,896
Trade and Industrial	--	--	--	--	--	--
Visual and Performing Arts	3,775	5,038	4,484	9,516	--	15,223
Other	--	--	--	--	--	--
Total	3,054	3,937	3,563	5,637	2,441	9,779

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, 2021; 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 2020-21,
Change from 2019-20 and Five-Year Average Annual Rate of Change
(2015-16 to 2020-21)**

State-related University	Undergraduate									Master's		
	Lower division			Upper division			Total undergraduate					
	<u>Percent change</u>			<u>Percent change</u>			<u>Percent change</u>			<u>Percent change</u>		
	Class size	One-year	Five-year average	Class size	One-year	Five- year average	Class size	One-year	Five-year average	Class size	One-year	Five-year average
Lincoln	17	-10%	-2%	14	-3%	1%	16	-8%	-1%	8	-9%	-7%
Penn State	26	-4	-4	22	-3	-4	24	-3	-1	14	1	a
Pittsburgh	31	9	1	25	9	2	28	12	-4	16	a	-1
Temple	31	-3	-1	26	-2	a	28	-3	-1	16	-8	a
Average	28	-1	-2	24	2	-2	26	a	-2	15	-2	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, 2016 to 2021.

TABLE 10

**Academic Year Tuition and Required Fees
for Full-Time Students by Academic Level and Residence 2020-21,
Change from 2019-20 and Five-Year Average Annual Rate of Change (2015-16 to 2020-20)**

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	\$11,266	a	1%	\$17,468	a	1%	\$11,274	-1%	a	\$18,804	-1%	a
Penn State ²	18,450	a	1	35,514	a	3	22,994	a	3%	38,728	a	3%
Pittsburgh ²	19,679	a	2	33,706	a	3	24,468	a	2	40,836	a	3
Temple	16,970	a	2	29,882	a	3	17,846	a	2	24,236	a	2
Average	16,591	a	1	29,143	a	3	19,146	a	2	30,651	a	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, 2021.

TABLE 11

**Tuition and Fee Revenues
Related to Full-Time Equivalent Students¹ 2020-21,
Change from 2019-20 and Five-Year Average Annual Rate of Change (2015-16 to 2020-21)**

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	\$26,245	-5%	5%	\$14,175	-\$16	a	a
Penn State	1,905,543	9	4	21,888	-1,104	-5%	2%
Pittsburgh	811,860	3	3	25,010	-41	a	4
Temple	943,429	-1	5	26,922	-128	a	4
Total	3,687,077	-5	2	23,572	-662	-3	2

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 2016 to 2021.

TABLE 12

**Commonwealth Instructional Appropriations
Related to Full-Time Equivalent Students¹ 2020-21,
Change from 2019-20 and Five-Year Average Annual Rate of Change (2015-16 to 2020-21)**

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	a	1%	\$8,191	\$781	11%	1%
Penn State	242,096	a	1	2,781	34	1	2
Pittsburgh	165,542	a	2	5,100	51	1	4
Temple	158,206	a	1	4,515	199	5	2
Total	581,010	a	2	3,715	75	2	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.

a. Rounds to less than 1 percent.

SOURCE: Instructional appropriations - Governor's Executive Budget, 2015-16 to 2020-21; data provided by the individual State-related universities. FTE students-data provided by the individual universities 2015 to 2021.

TABLE 13

**Tuition and Fee Revenues, Commonwealth Instructional Appropriations and Student Aid
Related to Full-Time Equivalent Students¹ 2020-21,
Change From 2019-20 and Five-Year Average Annual Rate of Change (2015-16 to 2020-21)**

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	\$14,175	\$8,191	\$22,365	37%	7%	a
Penn State	21,888	2,781	24,669	11	6	a
Pittsburgh	25,010	5,100	30,110	17	1	1%
Temple	26,922	4,515	31,436	14	4	1
Average	23,572	3,715	27,287	14	4	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.

a. Rounds to less than 1 percent.

SOURCE: Tuition and fee revenues - State-related data provided by the individual universities, 2021.

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
2015-16 to 2020-21**

State-related University	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Lincoln						
Total	1,792	1,904	2,141	2,185	2,047	1,852
Undergraduate	1,602	1,693	1,912	1,973	1,878	1,713
Graduate	190	212	230	212	169	139
Penn State						
Total	87,856	90,717	90,283	88,526	88,127	87,059
Undergraduate	79,183	81,586	80,683	78,627	77,974	76,222
Graduate	8,673	9,131	9,600	9,899	10,153	10,837
Pittsburgh						
Total	33,988	33,840	33,617	33,737	32,790	32,461
Undergraduate	25,221	25,444	25,377	25,352	24,442	24,255
Graduate	8,767	8,396	8,240	8,385	8,348	8,206
Temple						
Total	35,066	37,236	37,374	37,406	36,659	35,043
Undergraduate	28,296	29,574	30,066	29,961	29,352	27,816
Graduate	6,770	7,662	7,308	7,445	7,307	7,228

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

SOURCE: Data provided by the individual universities, 2016 to 2021.

HISTORICAL TABLE 2
Student Credit Hours by Academic Division and Level¹
Total Year and Summer
(in thousands)
2015-16 to 2020-21

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											
2015-16	36	12	48	5	na	na	5	53	a	a	1
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
Penn State											
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
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
Pittsburgh											
2015-16	494	262	756	139	49	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
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
Temple											
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
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

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, 2016 to 2021.

HISTORICAL TABLE 3

**Degrees Conferred¹
2015-16 to 2020-21**

State-related University	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Lincoln						
Total	383	405	384	463	454	518
Bachelor's	286	279	259	358	350	446
Graduate	97	126	125	105	104	72
Penn State						
Total	19,900	20,576	21,446	20,963	22,067	21,145
Bachelor's	15,934	16,299	17,089	16,509	17,461	16,684
Graduate	3,966	4,277	4,357	4,454	4,606	4,461
Pittsburgh						
Total	8,972	9,157	9,048	8,940	8,851	8,613
Bachelor's	5,411	5,533	5,655	5,664	5,762	5,724
Graduate	3,561	3,624	3,393	3,276	3,089	2,889
Temple						
Total	8,760	9,103	9,718	10,029	10,128	9,410
Bachelor's	6,277	6,456	6,472	6,749	7,095	6,561
Graduate	2,483	2,647	3,246	3,280	3,033	2,849

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, 2016 to 2021.

HISTORICAL TABLE 4

**Number and Average Weekly Student Contact Hours
of Full-Time Employed Faculty by Academic Level¹
Fall 2015 to Fall 2020**

State-related University	Full-time employee						Undergraduate Average weekly student contact hours						Graduate Average weekly student contact hours					
	2015	2016	2017	2018	2019	2020	2015	2016	2017	2018	2019	2020	2015	2016	2017	2018	2019	2020
Lincoln	98	96	100	101	105	107	10.2	10.6	11.3	9.6	8.8	9.0	1.3	1.0	0.5	0.5	0.5	0.7
Penn State	4,119	4,276	4,246	4,377	4,439	4,302	9.8	9.6	9.7	9.6	9.6	10.4	2.8	2.8	2.8	2.9	2.8	3.0
Pittsburgh	2,005	2,068	2,084	2,095	2,170	2,173	5.1	4.8	5.2	5.1	5.0	5.0	2.6	2.4	2.4	2.4	2.3	2.3
Temple	1,342	1,478	1,401	1,349	1,374	1,144	5.1	5.2	5.3	5.4	5.4	5.5	2.6	2.5	2.5	2.5	2.6	2.6
Total	7,564	7,918	7,831	7,922	8,090	7,726	7.7	7.6	7.7	7.7	7.7	8.1	2.7	2.6	2.6	2.7	2.6	2.7

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, 2016 to 2021

HISTORICAL TABLE 5
Number and Average Instructional Salaries
of Full-Time Equivalent Instructional Faculty by Rank¹ 2020-21,
Change from 2019-20 and Five-Year Average Annual Rate of Change (2015-16 to 2020-21)
(in thousands)

State-related University	FTE Instructional Faculty	All Faculty	Professor	Associate Professor	Assistant Professor	Instructor	No Rank ²
Lincoln							
2015-16	\$153	\$53	\$89	\$65	\$54	\$21	\$51
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
Penn State							
2015-16	4,974	78	130	91	77	56	58
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
Pittsburgh							
2015-16	2,188	65	119	78	63	33	53
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
Temple							
2015-16	1,876	53	121	76	38	27	18
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

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, 2016 to 2021.

HISTORICAL TABLE 6

**Average Instructional Faculty Salary Cost
Per Full-Time Equivalent Student
by Academic Division and Level¹
2015-16 to 2020-21**

State-related University	Lower Division						Upper Division						Total Undergraduate						Master's					
	2015- 16	2016- 17	2017- 18	2018- 19	2019- 20	2020- 21	2015- 16	2016- 17	2017- 18	2018- 19	2019- 20	2020- 21	2015- 16	2016- 17	2017- 18	2018- 19	2019- 20	2020- 21	2015- 16	2016- 17	2017- 18	2018- 19	2019- 20	2020- 21
Lincoln	\$3,743	\$3,242	\$3,193	\$3,185	\$3,680	\$4,176	\$6,508	\$6,035	\$6,224	\$6,242	\$5,344	\$5,586	\$4,434	\$3,908	\$3,877	\$3,943	\$4,150	\$4,599	\$5,091	\$4,042	\$4,227	\$4,864	\$6,368	\$7,063
Penn State	3,952	3,756	3,811	4,099	4,378	4,059	4,395	4,530	4,669	4,892	5,036	4,640	4,163	4,124	4,217	4,478	4,700	4,343	6,591	6,412	6,246	6,750	6,872	6,357
Pittsburgh	2,869	2,945	3,093	3,224	3,307	3,350	4,704	4,745	4,935	5,054	5,433	5,089	3,505	3,580	3,755	3,888	4,099	3,977	5,226	5,215	5,608	5,625	6,073	6,647
Temple	2,131	2,131	2,735	2,877	2,991	3,054	2,889	1,849	3,640	3,779	3,982	3,937	2,547	2,523	3,230	3,386	3,549	3,563	4,228	3,522	4,859	4,977	5,566	5,637
Total	3,257	3,130	3,408	3,623	3,821	3,711	4,026	4,032	4,407	4,585	4,782	4,531	3,615	3,548	3,873	4,077	4,283	4,105	5,969	5,535	5,841	6,090	6,528	6,332

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, 2016 to 2021.

HISTORICAL TABLE 7
Average Instructional Faculty Salary Cost
Per Student Credit Hour
by Academic Division and Level¹
2015-16 to 2020-21

State-related university	Lower Division						Upper Division						Total Undergrade						Master's					
	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Lincoln	\$125	\$108	\$106	\$106	\$123	\$139	\$217	\$201	\$207	\$208	\$178	\$186	\$148	\$130	\$129	\$131	\$138	\$153	\$212	\$168	\$176	\$203	\$265	\$294
Penn State	132	125	127	137	146	135	146	151	156	163	168	155	139	137	141	149	157	145	275	267	260	281	286	265
Pittsburgh	96	98	103	107	110	112	157	158	165	168	181	170	117	119	125	130	137	133	218	217	234	234	253	277
Temple	71	62	91	96	100	102	96	84	121	126	133	131	85	74	108	113	118	119	167	147	249	236	232	234
Total	109	104	114	121	127	124	134	134	147	153	159	151	121	118	129	136	143	137	249	231	243	254	272	264

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, 2016 to 2021.

HISTORICAL TABLE 8

**Average Class Sizes in Classroom Instruction
by Academic Division and Level¹
2015-16 to 2020-21**

State-related university	Lower Division						Upper Division						Total Undergrade						Master's					
	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Lincoln	19	19	21	20	19	17	14	13	13	12	14	14	17	17	19	17	17	16	12	13	13	11	9	8
Penn State	32	30	29	28	27	26	28	24	23	22	23	22	30	27	25	25	25	24	15	14	14	13	14	14
Pittsburgh	29	29	29	28	28	31	23	24	24	24	23	25	27	27	27	26	26	28	17	16	16	16	16	16
Temple	33	29	33	32	32	31	26	27	26	26	26	26	29	29	29	29	29	28	16	17	18	17	17	16
Total	31	30	29	28	28	28	27	24	24	23	24	23	29	27	26	26	26	25	16	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, 2016 to 2021.

HISTORICAL TABLE 9

**Commonwealth Instructional Appropriations¹
2015-16 to 2020-21
(in millions)**

State-related University	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Lincoln	\$14.1	\$14.4	\$14.4	\$14.9	\$15.2	\$15.2
Penn State	224.8	230.4	230.4	237.3	242.1	242.1
Pittsburgh	139.9	143.3	152.9	157.6	165.5	165.5
Temple	146.9	150.6	150.6	155.1	158.2	158.2
Total	525.7	538.8	548.3	564.9	581.0	581.0

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.

SOURCE: Instructional appropriations - Governor's Executive Budget, 2015-16 to 2020-21; data provided by the individual State-related universities 2015 to 2021. FTE students - data provided by the individual universities, 2016 to 2021.

HISTORICAL TABLE 10

**Academic Year Tuition and Required Fees
for Full-Time Students
by Academic Level and Residence
2015-16 To 2020-2021**

State-related University	Undergraduate		Graduate ¹	
	In-State	Out-of-State	In-State	Out-of-State
Lincoln				
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
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
Penn State				
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
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
Pittsburgh				
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
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
Temple				
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
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

1. Excludes first-professional level.

SOURCE: Pennsylvania Department of Education, National Center for Education Statistics, (December 2021)

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:

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

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.