Practical Uses of IPEDS Data

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ASA IPEDS Research

- ► NEA
- ► AFT
- ► AASCU
- Bill & Melinda Gates Foundation
- Community College Research Center

- ► NPEC Research Papers
- IPEDS HR Data Quality Study

IPEDS-HR

Analysis of faculty/staff composition & salaries for publications/presentations



Some Faculty Fare Better... Over Time

Average Purchasing Power of Full-Time Faculty on 9/10-Month Contracts: 1972-73 and 2017-18



IPEDS-HR | Types of Analysis

- Salary & purchasing power trends and comparisons by gender, state, rank, institutional level & control, HBCUs, land grant institutions, unionized/non-unionized institutions
- Trends in composition of faculty & staff
- Erosion of tenure
- Trends in appropriations versus salaries, expenditures on instruction and other expenditure categories

Some Faculty Fare Better... Land-Grant Institutions

Faculty purchasing power for Land Grant Institutions: 1995-96 to 2015-16



IPEDS: All Surveys



www.cudas.org

- Easy-to-use data search and reporting tool.
- ► Features peer grouping tool.
- Includes pre-created figures on key topics.
- ► Source: US Department of Education IPEDS data.

CUDAS | 10-20 Years of Data

Faculty salaries Institutional finances Non-instructional staff Enrollment Completions Student finances Tenure

Disinvestment indicator report

A Picture is Worth a 1,000 Words ... Average Faculty Salaries, 2017-18



Average Salary Trend



Trends: Expenditures per Student



The AASCU Story

Taps into a compendium of IPEDS data to tell the association's story.

- Students (Pell, transfer, URM)
- Degrees, grad rates, outcomes
- Share of enrollments & degrees
- Finances (doing more with less; comparable student services expenditures)

100% •With a membership of 384 institutions and 37 system offices in the US and US territories*, AASCU institutions comprise 53% of the nation's 725 public 4-year institutions. •AASCU institutions enroll 3.3 million undergraduate students, or 47% of the 50% nation's public, 4-year undergraduate enrollments. AASCU institutions award about 6ogk 609,000 bachelor's degrees, or 49% of 384 Million BA all bachelor's degrees awarded by public 4-year institutions. Institutions Students Degrees 0% $\widehat{\mathbb{m}}$ The AASCU Reach *AASCU also has a international member institutions: University of the Bahamas; China Center for International Education Exchange; University of Guyana.

AASCT TAmerican Association of State Colleges and

Non-Instructional Staff | Infographic Report

On average, 17% of ESPs work part-time, but use of part-time staff is uneven across occupations. ▶ 1-in-3 academic affairs staff and 1-in-4 sales staff are part-time, which are higher than average.

► Fewer than 1-in-10 computer/engineering/ science, business, and construction and maintenance occupations are part-time, which is much lower than average.

Percent of ESP Staff Working Part-Time



Source: ASA Research analysis of U.S. Department of Education, Integrated Postsecondary Education Data System, Fall Staff Survey data file, 2017.

Staff working in all ESP occupations have felt an improvement in purchasing power (salaries corrected for inflation) over the past 5 years.

►On average, purchasing power among ESP staff increased \$1,857, or 4 percent, between the 2013* and 2017 academic years.

Staff working in community service, legal and arts professions experienced the smallest increase in purchasing power, both in percentage and dollars -\$686 dollars, or a 1 percent purchasing power increase.

Staff in sales professions experienced both the largest percentage and dollar improvement in purchasing power - \$2,332, or 6 percent.

Among healthcare staff - the highest paid among ESPs - both the percentage and dollar increase in purchasing power were slightly below average, \$1,716, or 3 percent.

The lowest paid ESPs - those working in service occupations, also experienced purchasing power increases less than average among ESPs, \$1,205 and 3 percent.

*2013 is the first year the US Department of Education collected salary data for ESP staff.

Source: ASA Research analysis of U.S. Department of Education, Integrated Postsecondary Education Data System, Salary Survey data file, 2013 and 2017.



Faculty Diversity Study	Relationship between change in faculty diversity and graduation rates.
Disinvestment	Analysis of institutions' expenditure patterns as related to changes in governmental funding and other revenue sources; CUDAS report.
Student Success Initiatives	Performance metrics & benchmarking; ID potential grantees.

Additional Studies & Uses

NPEC: Assessing the Capacity of IPEDS to Collect Transfer Student Data

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National Postsecondary Education Cooperative (NPEC)

<u>Mission/History</u> <u>Members</u>	Products
Products	2018
	The History and Origins of Survey Items for the Integrated Postsecondary Education Data System (2016–17 Update) (PDF, 4.19 MB)
	Assessing the Capacity of IPEDS to Collect Transfer Student Data (PDF, 1 MB)
	Making the IPEDS Students Financial Aid Survey Data Meaningful (PDF, 0.54 MB)
	Suggestions for Improving the IPEDS Collection of Graduate Students Data (PDF, 0.70 MB)

Research Questions

? What undergraduate transfer data are currently <u>available through IPEDS</u>?

? How are undergraduate transfer students <u>defined in IPEDS</u>?

? How do <u>institutions define and report</u> undergraduate transfer students for internal purposes?

? <u>What national data are needed</u> to answer important questions about undergraduate student transfer?

? Are there <u>other reliable sources</u> of undergraduate transfer data?

? After documenting the national need for undergraduate transfer data and limitations of IPEDS,

how can the current IPEDS data collection be improved?

Methodology

Scan of the relevant literature and datasets

- Emphasis on transfer student data
- IPEDS EF, GR, OM
- National completion initiatives
- Regional datasets

Interviews with nine institutional and state stakeholders

- Semi-structured protocol
- Range of institution types, state agencies
- Recommended by external advisor

Transfer Data Sources - IPEDS

GR	ОМ	EF
 First-time, full-time, degree-seeking students. Fall or full-year cohort Dual enrollment students not included. 	 First-time, full-time degree/certificate-seeking entering students. First-time, part-time entering. Non-first-time, full-time entering. Non-first-time, part-time entering. Dual enrollment students not included. Full-year cohort beginning 2017-2018 	 Undergraduate, degree/certificate-seeking, <u>first-time</u>. Undergraduate, other degree/certificate-seeking, <u>transfer-ins</u>.

	GR	OM	EF	NSC	BPS
Transfer-in	† † Not applicab	A degree/certificate u entering the institution but known to have pro- postsecondary institut may transfer with or w	on for the first time eviously attended a tion. The student	Can be computed; no explicit definition.	†
					X

	AACC VFA	SAM	ССА	
Transfer-in	 Earned postsecondary 	Includes transfer-in	•"Transfer at entry:"	
	credits after HS at another	students in reporting, but	Previously attended a	
	institution, if enrolling for the	does not provide an	postsecondary institution.	
	first time at your institution.	explicit definition of	•With or without	
		transfer-in.	credit/degree award.	
			•Does not include students	
		Transfer-in cohort	entering with credit earned	
		required for:	in high school.	
		•Full-time AA, BA seeking		
		•Part-time AA/certificate		
		Optional for:		
		•Part-time BA seeking		7

	GR	ОМ	EF	NSC	BPS
Transfer-	•Did not complete a program and	•Students who have	†	Can be	 Student leaves one
out	transferred.	not completed a		computed;	institution (the origin) and
	•Report if mission includes	program or		no explicit	enrolls at another institution
	providing substantial preparation	graduated but have		definition.	(the destination) for four or
	for students to enroll elsewhere	subsequently			more months consecutively
	without completing.	enrolled in any			without being concurrently
	•Must document that the student	program of an			enrolled at the origin
	transferred; required to report	eligible institution.			institution. ¹²
	only students known to transfer to	•Report transfer out			•Transfer status is checked at
	an eligible institution.	regardless if the			each follow-up.
	•If not part of mission, transfer-	institution has			
	out reporting is optional.	transfer prep as part			
		of mission.			

† Not applicable.

¹ This transfer definition does not consider whether course credits were accepted by the destination institution. Students who co-enroll in a second institution without leaving the first institution are not considered to be transfers.

² Derived from student-unit data that include information about the date of transfer, the destination program, the type and level of the destination institution, the direction of transfer (4-year to 4-year, 2-year to 4-year, etc.), the time between enrollments, number of transfers per year between follow-ups.

	AACC VFA	SAM	CCA
Transfer-out	•A student enrolling and taking courses at	•BA Seeking:	•Number of students
	another postsecondary institution after their	Transferred/graduated	from two-year
	last enrollment at your institution. The start	from one or more	colleges who enroll
	date of the enrollment at the new	subsequent institution;	at a four-year
	institution does not matter.	transferred/are still	institution of higher
	•What is reported: <i>Two-year outcome</i> :	enrolled at a subsequent	education.
	Number of students in the two-year cohort	institution.	•What is reported:
	who have not earned a formal award (e.g.,	•AA/Certificate Seeking:	Four-year outcomes.
	AA or certificate) from your institution by	Transferred to one or more	
	the end of two years but have evidence of	subsequent institution	
	transferring to another institution by the	(includes students who	
	end of the second year. <i>Six-year outcome</i> :	transferred and are still	
	Number of students in the six-year cohort who have evidence of transferring to	enrolled, graduated, or	
	another institution by the end of their sixth	whose status is unknown).	
	year. Students who have not earned an	•What is reported: Six-year	
	award and those who earned a certificate or	for full-time BA seeking and	
	AA are considered to have transferred if	AA/certificate seeking	
	there is an enrollment at another	cohorts; ten-year outcomes	
	institution.	for part-time BA seeking	
		cohorts.	

	WICHE	SREB	MHEC	NEBHE
Transfer-in	†	 Entering undergraduates for fall terms. Includes full-time and part-time, degree/certificate- and non-degree-seeking; Includes students who initially attended the prior summer term and returned again in the fall.¹ 	†	†
Transfer- out	†	 Student who leaves the institution in which s/he is included in the cohort and enrolls at another institution. Documented by fall of year 2 from the cohorts, within 150 percent of normal time. 	†	†

† Not applicable.

¹Included in cohort, but not disaggregated in report.

Transfer Data Sources

	GR	OM	EF	NSC	BPS
Disaggregate	 Race/ethnicity Gender Gender and race/ethnicity 	 Pell Grant receipt (new in 2017-18). Full- and part-time attendance (based 	Full- and part-time students.	•Required: Enrollment Status; Date of birth; Class/level; First-time, full-time	All NPSAS demographics and background data elements
	•New in 2016: Pell Grant and Subsidized Stafford Ioan recipients.	on first term of attendance). •First-time versus non-first-time. •Data are collected for combinations of the disaggregations above, e.g., the number of first- time, full-time, Pell recipients can be analyzed.)		degree/certificate seeking undergraduate flag; Degree-seeking; Gender; Race/ethnicity; Program information. •Optional: Veteran's status; Pell Grant recipient; Remedial; Citizenship.	are available.

Transfer Data Sources

	AACC VFA	SAM	CCA
Disaggregate	 Race/ethnicity, gender, Pell Grant status, age, college- readiness, and full-time/part- time status. Main Cohort (all students new to the institution) and Credential Seeking Cohort. 	 Full-time/part-time. BA v. AA/Certificate seeking. 	 Race/ethnicity, gender, income (Pell Grant recipients), age group, attendance status. Degree type, discipline. Number of transfer credits (12 or fewer, 13 to 30, more than 30 credit hours but not an Associate's degree), completed an Associate's degree.

Interview Findings

- Importance of Transfer Students & Data
 - Role of transfer in strategic plans and completion initiatives
 - Emphasis on transfer metrics and reporting
 - Specialized transfer programs, policies, and services

Interview Findings: Sample Reporting

- Transfer-in by:
 - ► Feeder/sending college.
 - Student level, enrollment status, number of credit hours, associate degree completion.
 - Student characteristics (race/ ethnicity, international status, military status, first generation status, Pell Grant receipt, and residence).
 - Number of credit hours BA completers earned from each community college.
 - "Native" vs. junior-/sophomorelevel transfer GPA, persistence, and completion.

- ► Transfer-out by:
 - Enrollment and completion at receiving institution using NSC.
 - Major, articulation, GPA, dual credit, transfer-in status, number of credits transferred in, and receiving institution.
 - Transfer intent vs. transfer rates.
 - Out-of-state awards.
 - Both (2/4-year partnership)
 - Excess credits, credits accepted by the receiving institution, associate's degrees awarded, course failure and success rates.

Interview Findings: Transfer definitions

- Transfer-in varies by:
 - ▶ <u>Number of credits</u>: Two interviewees require minimum of 12 credits.
 - Dual enrollment: Two interviewees include students with dual enrollment credit in their transfer definition (if the student earned credits at a different college than the one in which they are enrolled after high school graduation).
- Transfer-out: Typically, no definition, or simply enrolling in another postsecondary institution. Tracked via NSC.
- Reverse transfer 2 definitions:
 - Transferring from a 4-year to a 2-year institution, or
 - ► Retroactive awarding of an associate's degree.

Interview Findings: IPEDS Transfer Feedback

- Mixed levels of satisfaction with student transfer representation in IPEDS.
- ► OM survey is a good start to tracking outcomes of transfer-in students.
- Waiting to use the OM survey until it is more established due to recent changes.
- Most interviewees rely on more detailed institutional or state-level transfer datasets.
- ▶ IPEDS not as useful for community colleges, "huge reporting burden."
 - ▶ Perceived value may change with the addition/use of OM.

Interviewee Recommendations: OM Changes

- Disaggregate non-first-time by:
 - Number of credits
 - Upper/lower division
 - ► Transfer vs. stop-out students
- Clarify data display:
 - Include information about the data source.
 - Clarify in Navigator whether the award received is at the same or a different institution.

Interviewee Recommendations: Additional Transfer Data "Wish List"

- ► Transfer retention rates
- ► Financial aid receipt
 - ▶ native vs. transfer
 - average loans and debt at graduation
- Transfer admissions data
- 12-month enrollment: first-time, continuing, transfer
- ► GR: transfer rates
- ► EF transfer-in characteristics (age and residence) on Navigatør

Interviewee Recommendations: Broader Changes

- Classifying transient students:
 - ► When to remove from cohort
 - 4-year/non-degree student summer classes
- Institutional classifications
- Data dissemination/display (Navigator)
 - See College Portrait visual aids
- Dissemination of IPEDS transfer-related data
- Integrating data systems (Banner/Peoplesoft, NSC)
- Student Unit Record Data System
- Net price reports

Transfer Recommendations

- 1. Clarify transfer-out definition (note students who earned credentials excluded).
- 2. Add transfer items to Admissions survey.
- 3. Further disaggregate OM non-first-time by number of credits.
- 4. Collect transfer-in and transfer-out by institution level (EF and GR).
- 5. Explore the possibility of a transfer-specific survey.

Upcoming ASA NPEC papers

Admissions

Institutional Characteristics/IC Header

ASA research

Know the facts. Act with insight.





For Further Information

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