Identifying peer institutions:

Final Results

Peer Group Selection Committee

February 19, 2025

THE UNIVERSITY OF TOLEDO

Method

250 Doctoral Public Universities

Step 1:
Identify Variables for Matching

Step 2:
Identify Missing Data

Step 3:
Calculate Distance Measures

Step 4:
Find 20 Nearest Neighbors

Step 5:
Identify Subset of Aspirational Peers

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Step 1: Input Variables for Matching

1. **Total fall headcount**
2. % undergraduate fall headcount
3. **Undergraduate acceptance rate**
4. **% of degree/certificate-seeking undergraduate students awarded Pell grants**
5. % of degree/certificate-seeking undergraduates receiving federal student loans
6. Expenditures per annual FTE
7. Total annual research expenditures
8. Undergraduate program classification focus (e.g., professions + Arts & Sciences)
9. Grants a medical degree
10. Has a hospital
11. Graduate program classification focus (e.g., comprehensive, STEM dominant)
12. Number of annual doctoral research degrees

Bolded items are weighted heavily because they are highly correlated with retention and graduation rates.

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Step 2: Institutions Excluded for Missing Data

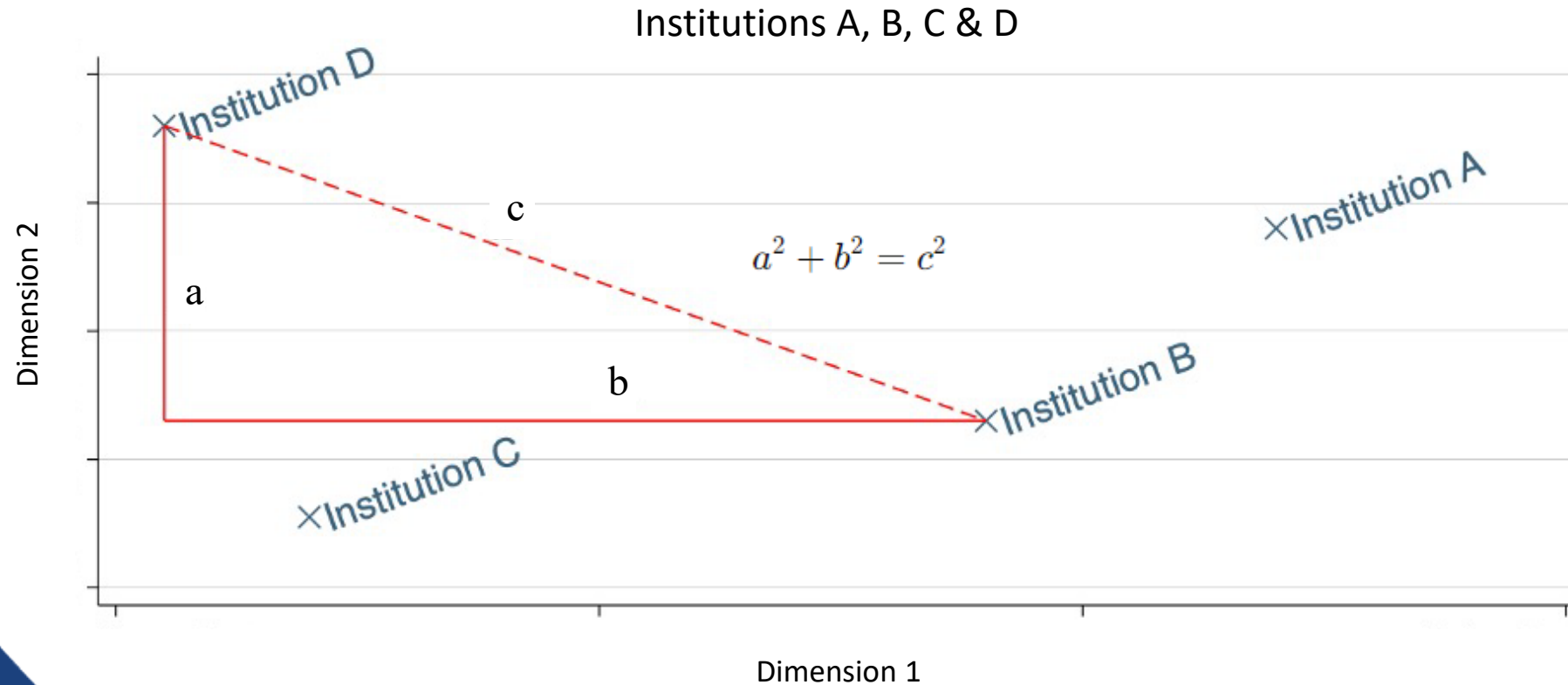| Institutions with Missing Undergraduate Acceptance Rate |
| --- |
| College of Staten Island CUNY |
| Eastern Virginia Medical School |
| Idaho State University (open admission policy) |
| Louisiana State University Health Sciences Center-New Orleans |
| Louisiana State University Health Sciences Center-Shreveport |
| Medical University of South Carolina |
| Northeast Ohio Medical University |
| Oklahoma State University Center for Health Sciences |
| Oregon Health & Science University |
| SUNY College of Optometry |
| SUNY Downstate Health Sciences University |
| Tennessee State University (open admission policy) |
| Texas Tech University Health Sciences Center |
| The University of Tennessee Health Science Center |
| The University of Texas Health Science Center at Houston |
| The University of Texas Health Science Center at San Antonio |
| The University of Texas Medical Branch at Galveston |
| University of Arkansas for Medical Sciences |
| University of California-San Francisco (grad only) |
| University of Maryland Baltimore (grad only) |
| University of Massachusetts Chan Medical School |
| University of Massachusetts Global (open admission policy) |
| University of Nebraska Medical Center |
| University of North Texas Health Science Center |
| University of Oklahoma-Health Sciences Center |
| University of Puerto Rico-Medical Sciences |
| University of Texas Southwestern Medical Center |
| University of the District of Columbia (open admission policy) |
| Upstate Medical University |

* Did not have undergraduate acceptance rates reported in IPEDS.

Institutions with Missing Instructional Expenditure per FTE
Pennsylvania State University-Main Campus
Temple University
University of Delaware
University of Pittsburgh-Pittsburgh Campus

* Did not have any instructional expenditures per FTE because these institutions follow FASB accounting standards.

Step 3: Distance Measure Example

Institutions A, B, C & D

$$a^2 + b^2 = c^2$$

This illustrates in two-dimensional space how the nearest neighbor method works but with multiple dimensions.

Step 4: 20 Nearest Neighbors
Matched on 12 Metrics

Rank	Institution Name	State	Distance Measure	Total Fall Headcount	% UG Fall Headcount	UG Acceptance Rate (%)	% UG DS Awarded Pell Grants	% UG DS Receiving Federal Loans	Instructional Expenditure per FTE (USD)	Grants Medical Degree	Has Hospital	Total Research Expenditures (K USD)	UG Program Classification Focus	GR Program Classification Focus	Doctoral Research Degrees	UG 1-year Retention Rate (%)	UG 6-year Graduation Rate (%)
-	**University of Toledo**	OH	-	15,545	77%	92%	29%	42%	29,950	1	1	54,100	Professions	Comprehensive programs (w/wo med/vet)	116	75%	57%
1	University of Mississippi	MS	2.08	22,300	78%	97%	24%	34%	35,939	1	1	122,960	Professions	Comprehensive programs (w/wo med/vet)	236	89%	68%
2	Southern Illinois University-Carbondale	IL	2.12	11,107	72%	91%	37%	48%	74,339	1	1	41,617	Professions	Comprehensive programs (w/wo med/vet)	102	70%	49%
3	University of Louisville	KY	2.33	22,017	72%	82%	33%	34%	55,066	1	1	198,818	Professions	Comprehensive programs (w/wo med/vet)	159	78%	62%
4	Oakland University	MI	2.66	16,108	80%	90%	31%	40%	20,651	1	0	12,949	Professions	STEM-dominant	70	75%	58%
5	The University of Texas at Tyler	TX	2.68	9,322	75%	94%	37%	33%	34,928	1	1	23,272	Professions	Professional-dominant	21	61%	44%
6	University of New Mexico-Main Campus	NM	2.85	21,953	75%	96%	38%	49%	64,169	1	1	243,375	Balanced	Comprehensive programs (w/wo med/vet)	184	72%	52%
7	University of Alabama at Birmingham	AL	2.93	21,639	60%	87%	34%	42%	66,756	1	1	618,226	Balanced	Comprehensive programs (w/wo med/vet)	163	82%	64%
8	Virginia Commonwealth University	VA	3.13	28,082	75%	91%	31%	43%	35,505	1	1	283,874	Balanced	Comprehensive programs (w/wo med/vet)	400	85%	65%
9	Wright State University-Main Campus	OH	3.22	9,678	72%	95%	35%	45%	20,415	1	0	49,825	Professions	STEM-dominant	25	64%	44%
10	University of South Dakota	SD	3.25	9,856	72%	99%	25%	56%	26,941	1	0	29,279	Professions	Comprehensive programs (w/wo med/vet)	78	82%	57%
11	Sam Houston State University	TX	3.28	21,480	85%	85%	40%	47%	17,412	1	1	12,437	Professions	Professional-dominant	64	74%	56%
12	University of Nevada-Reno	NV	3.30	20,945	81%	86%	27%	28%	36,784	1	0	159,790	Balanced	Comprehensive programs (w/wo med/vet)	190	80%	62%
13	Augusta University	GA	3.35	9,140	59%	86%	40%	41%	50,967	1	1	103,961	Balanced	STEM-dominant	38	73%	50%
14	Kansas State University	KS	3.44	19,722	76%	95%	20%	39%	38,215	1	0	213,900	Professions	Comprehensive programs (w/wo med/vet)	219	86%	69%
15	Western Michigan University	MI	3.47	17,000	80%	85%	27%	50%	22,852	0	0	18,924	Professions	Comprehensive programs (w/wo med/vet)	100	77%	55%
16	Ohio University-Main Campus	OH	3.51	24,145	75%	87%	22%	46%	24,416	1	0	51,914	Professions	Comprehensive programs (w/wo med/vet)	113	79%	65%
17	Wichita State University	KS	3.61	16,216	74%	95%	35%	43%	40,125	0	0	153,816	Professions	STEM-dominant	44	66%	52%
18	The University of Montana	MT	3.63	9,955	72%	95%	31%	43%	35,798	0	0	110,218	Balanced	Comprehensive programs (w/wo med/vet)	71	74%	49%
19	University of Akron Main Campus	OH	3.65	13,465	84%	83%	33%	41%	20,313	0	0	23,496	Professions	Comprehensive programs (w/wo med/vet)	76	68%	53%
20	West Virginia University	WV	3.67	24,741	77%	88%	23%	48%	27,775	1	0	188,452	Balanced	Comprehensive programs (w/wo med/vet)	208	79%	62%

Input Variables | Output Variables

Step 5: Aspirational Peers

				Input Variables											Output Variables		
Rank	Institution Name	State	Distance Measure	Total Fall Headcount	% UG Fall Headcount	UG Acceptance Rate (%)	% UG DS Awarded Pell Grants	% UG DS Receiving Federal Loans	Instructional Expenditure per FTE (USD)	Grants Medical Degree	Has Hospital	Total Research Expenditures (K USD)	UG Program Classification Focus	GR Program Classification Focus	Doctoral Research Degrees	UG 1-year Retention Rate (%)	UG 6-year Graduation Rate (%)
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-	**University of Toledo**	**OH**	**-**	**15,545**	**77%**	**92%**	**29%**	**42%**	**29,950**	**1**	**1**	**54,100**	**Professions**	**Comprehensive programs (w/wo med/vet)**	**116**	**75%**	**57%**
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* Aspirational peers are those highlighted blue with 1-year retention rates above 80% and 6-year graduation rates above 60% (2028 Strategic Plan goals).

Map of Peer Institutions