

Identifying Peer Institutions for South Dakota's Technical Colleges

Prepared by MHEC Research¹

MAY 28, 2019

RE: In response to an inquiry from the South Dakota Board of Technical Education, the purpose of this analysis is to identify peer institutions for each of South Dakota's technical colleges.

Solution: MHEC Research conducted a nearest neighbor analysis to identify the top seven peer institutions for each technical college in South Dakota (listed below). The selected institutions are considered peers in terms of mission, student enrollment characteristics, the types of credentials produced, and geographical location.

Lake Area Technical Institute	Mitchell Technical Institute	Southeast Technical Institute	Western Dakota Technical Institute
North Dakota State College of Science	State Technical College of Missouri	Dakota County Technical College	Anoka Technical College
State Technical College of Missouri	Dakota County Technical College	St. Cloud Technical and Community College	Minnesota State College Southeast
North Iowa Area Community College	North Dakota State College of Science	Northland Community and Technical College	Belmont College
Northland Community and Technical College	Southwest Wisconsin Technical College	Western Technical College	Blackhawk Technical College
Dakota County Technical College	North Iowa Area Community College	Hocking College	Dakota County Technical College
Southwest Wisconsin Technical College	Northwest Kansas Technical College	Minnesota State College Southeast	Helena College University of Montana
Northwest Kansas Technical College	Northland Community and Technical College	North Dakota State College of Science	Highlands College of Montana Tech

¹ Analysis performed by Shaun Wyche. For additional information, contact Aaron Horn. (✉)

Identifying Peer Institutions for South Dakota's Technical Colleges

The ability of an institution to compare itself with its peer institutions is critical for planning, resource allocation, and performance measurement. Comparisons with peer institutions can be an efficient way to communicate with lawmakers, trustees, and administrators about where the institution is positioned on a variety of metrics, which can in turn influence policies that affect faculty, staff, and students. In the context of higher education, a peer group consists of colleges that are similar on a set of attributes. The attributes in question are typically thought to influence institutional performance in ways that may affect the validity of performance comparisons (cf. Brinkman and Teeter, 1987). Ideally, peer institutions will be roughly the same size and have similar institutional missions, student demographics, curricula, and resources (McLaughlin et al., 2011). The goal is not to find an exact clone of the target institution but to find an appropriate match that permits valid performance comparisons.

FRAMEWORK

A determination of the relevant factors for peer institution selection is guided by empirical research that has linked institutional attributes to performance at two-year colleges (e.g., Horn, Horner, & Lee, 2017) as well the need for parsimony due to dimensionality restrictions. In the latter case, the number of peer institutions that are similar to the target institution generally decreases as the number of variables increases, particularly if the variables in question are not strongly intercorrelated. Four types of variables are considered: institutional mission, student enrollment, academic profile, and context.

Institutional mission

Differences in institutional mission are commonly represented with the Carnegie classification system based on the highest level of degrees awarded, program mix, and students served (see Indiana University Center for Postsecondary Research, 2018). The Carnegie system identifies two-year or associate's colleges as those that confer the associate degree as the highest degree. Technical

two-year colleges are further distinguished based on the predominance of career and technical fields, which is defined by at least 60 percent of credentials awarded in career and technical disciplines. The third level of mission differentiation is defined by the relative enrollment of traditional students, which is estimated by the product of the proportion of degree-seeking students and the ratio of the fall headcount of students to the annual unduplicated headcount. Institutions with a resulting product of .58 or greater are classified as *high traditional*; those lower than .47 are termed *high non-traditional*; and those between .47 and .58 are deemed *mixed traditional/non-traditional*. Past research on four-year institutions has indicated that Carnegie Classification is a significant predictor of graduation rates (Horn & Lee, 2015).

Student enrollment

Several enrollment characteristics have been associated with graduation rates at two-year colleges, including total FTE student enrollment, the percentage of low-income students, the percentage of female students, the percentage of students from Hispanic, Black, and Native American backgrounds, the percentage of older adult students, and the percentage of part-time students (e.g., Horn et al., 2017; Bailey et al., 2006). Moreover, enrollment size affects institutional revenue and costs as well as the potential for benefiting from economies of scale (e.g., Toutkoushian, 1999).

Academic profile

The institution's academic profile can be partly quantified by the number or percentage of credentials awarded. For example, the percentages of less-than-one-year and less-than-two-year certificates were strong predictors of completion rates at two-year colleges (Horn et al., 2017).

The academic profile of technical colleges can also be quantified by their predominant programs; there are currently over 450 Classification of Instructional Program (CIP) codes for career and technical fields (Indiana University Center for Postsecondary Research, 2018). Differences across institutions

in award level and the disciplinary fields of program offerings can produce significant variation in cost structures (Horn et al., 2019).

Institutional context

Potentially relevant contextual attributes include the institution's location in terms of state, urbanization, and local market conditions. State governments play an important role in influencing pre-college academic preparation, financial aid distribution, and institutional revenue (McGuinness and Novak, 2011). Moreover, states vary in other ways that may enable and constrain institutions in their ability to achieve objectives, including population characteristics (e.g., total population), resources (e.g., taxable resources per capita), and market conditions (e.g., unemployment rate) (see Horn, 2013). Regarding a two-year college's urbanization, being in a large city has been negatively associated with graduation rates (Horn et al., 2017). The prices of some goods and services such as housing also tend to be higher in urban than in rural areas (Hawk, 2013). The current analysis, however, accounts only for state and region, as controlling for urbanization would overly restrict the number of possible peer matches.

Method

DATA SOURCE AND SAMPLE

Data were retrieved for South Dakota's technical colleges and a pool of possible peer institutions for variables in the 2017 reporting year. All data are derived from the National Center for Education Statistics' Integrated Postsecondary Education Data System (IPEDS).

South Dakota's technical colleges – Lake Area Technical Institute, Mitchell Technical Institute, Southeast Technical Institute, and Western Dakota Technical Institute – have a combined enrollment of about 6,500 students. The collective mission of the colleges is to “provide students with the aptitude, knowledge, and technical and people skills necessary for entry into and advancement in their chosen career field.” (South Dakota Department of Education, 2019). The institutions are classified by the Carnegie system as high career and technical associate colleges as well as having highly traditional student bodies.

An initial pool of public technical colleges was created based on the Carnegie Classification system with the following attributes: (a) associate's college, defined as institutions that confer associate degrees as their highest degree, (b) high career and technical program mix, including institutions that award at least 60 percent of their credentials in career and technical fields; and (c) high traditional or mixed traditional/non-traditional student mix, wherein the product of the percentage of degree-seeking students to the ratio of the fall headcount of students to the annual unduplicated headcount is .47 or greater (The Carnegie Classification of Institutions of Higher Education, 2018). The pool was further limited to institutions located in the Midwest and states that have been identified as peer states for South Dakota (Horn, 2013).

VARIABLES

This section operationalizes the measures to be used in identifying peer institutions for each of the South Dakota institutions. Variables represent enrollment and academic profile attributes. Table 1 provides descriptive statistics for all variables.

Enrollment

Five variables measure a college's enrollment characteristics: institutional size, percent of low-income students, percent of underrepresented minority students, percent of older students, and percent of part-time students. Institutional size is captured through the institution's 12-month FTE enrollment. The share of low-income students is calculated by the percentage of students that were awarded Pell Grants. The share of students from underrepresented minority populations is measured as the percentage of students enrolled in the fall that were American Indian, Black, or Hispanic. The share of older students is defined as the percentage of all students enrolled in the fall that were 25 or older. Enrollment intensity is calculated by the percentage of part-time students enrolled in the fall.

Academic Profile

An institution's academic profile is defined by the number of associate degrees and less-than-two-year certificates as well as the number of credentials conferred in each of the top three fields of study (ranked by total credentials conferred). The fields are classified according to their two-digit CIP code.

TABLE 1. Descriptive Statistics

Variable	Average	Standard Deviation
<i>Enrollment</i>		
Full-Time Equivalent Fall Enrollment	2,019.17	1,620.11
Percent Pell	0.36	0.10
Percent Underrepresented Minority	0.14	0.12
Percent Older Students	0.30	0.12
Percent Part-Time	0.55	0.15
<i>Academic Profile</i>		
Associate Degrees Conferred	440.50	291.17
Certificates of Less Than 2-Years Conferred	459.37	438.05
Agriculture, Agriculture Operations and Related Sciences	36.37	60.98
Business, Management, Marketing, and Related Support Services	97.07	107.72
Computer and Information Sciences and Support Services	47.03	67.21
Construction Trades	36.03	41.60
Health Professions and Related Programs	336.10	311.75
Mechanic and Repair Technologies/Technicians	73.60	65.10
Precision Production	53.80	44.32

The top three fields for each South Dakota institution are as follows:

- Lake Area Technical Institute: Health Professions and Related Programs, Agriculture, Agriculture Operations and Related Sciences, Mechanic and Repair Technologies/Technicians
- Mitchell Technical Institute: Construction Trades, Agriculture, Agriculture Operations and Related Sciences, Health Professions and Related Programs
- Southeast Technical Institute: Business, Management, Marketing, and Related Support Services, Health Professions and Related Programs, Computer and Information Sciences and Support Services
- Western Dakota Technical Institute: Health Professions and Related Programs, Precision Production, Business, Management, Marketing, and Related Support Services

DATA ANALYSIS

This study uses the nearest neighbor approach for peer institution identification. The approach begins with a single institution and identifies institutions that are closest to the reference institution based on the Euclidean distance (Xu, 2008; McLaughlin et al, 2011), which is calculated with the following formula: $d^2(B, C) = (Bx - Cx)^2 + (By - Cy)^2$. This formula gives the squared distance between institution 'B' and institution 'C' for variables 'x' and 'y,' wherein larger values will reflect a higher degree of dissimilarity. Table 2 provides a correlation matrix of all variables. The high intercorrelations among enrollment and degree conferral variables show that the model is weighted towards identifying institutions of similar size.

TABLE 2. Correlation Matrix

	Full-Time Equivalent Fall Enrollment	% Pell	% Underrepresented Minority	% Older Students	% Part-Time	Associate Degrees	Certificates Less Than 2-Years	Agriculture, Agriculture Operations and Related Sciences	Business, Management, Marketing, and Related Support Services	Computer and Information Sciences and Support Services	Construction Trades	Health	Mechanic and Repair Technologies/Technicians
Full-Time Equivalent Fall Enrollment													
% Pell	0.11												
% Underrepresented Minority	.56**	0.14											
% Older Students	.37*	.51**	.42*										
% Part-Time	0.28	0.04	0.29	.44*									
Associate Degrees Conferred	.92**	0.11	.40*	0.23	0.01								
Certificates of Less Than 2-Years Conferred	.82**	-0.03	0.33	.38*	.49**	.70**							
Agriculture, Agriculture Operations and Related Sciences	0.05	-0.12	-0.21	-0.34	-0.34	0.23	0.04						
Business, Management, Marketing, and Related Support Services	.82**	0.02	0.22	0.34	0.28	.80**	.85**	0.01					
Computer and Information Sciences and Support Services	.60**	-0.04	0.10	0.26	0.26	.55**	.78**	-0.09	.74**				
Construction Trades	.59**	0.01	.43*	0.26	-0.12	.55**	.43*	0.050	.49**	.41*			
Health Professions and Related Programs	.82**	-0.03	0.27	0.32	.49**	.70**	.96**	0.01	.87**	.68**	.37*		
Mechanic and Repair Technologies/Technicians	.41*	-0.15	0.18	0.24	-0.10	.48**	.48**	-0.03	.38*	.48**	0.27	.37*	
Precision Production	.70**	0.10	0.35	.48**	0.27	.63**	.78**	-0.11	.71**	.59**	.39*	.75**	.59**

Results

Table 3 ranks possible peer institutions by degree of similarity for each South Dakota technical college. For example, in the case of Lake Area Technical Institute, the seven most similar

institutions are North Dakota State College of Science, State Technical College of Missouri, Hocking College, North Iowa Area Community College, Northland Community and Technical College, Dakota County Technical College, St. Cloud Technical and Community College, in order of decreasing dissimilarity.

TABLE 3. Peer Institutions Ordered by Similarity for each South Dakota Technical College

Lake Area Technical Institute		Mitchell Technical Institute		Southeast Technical Institute		Western Dakota Technical Institute	
North Dakota State College of Science	1.20	State Technical College of Missouri	1.69	Dakota County Technical College	1.19	Anoka Technical College	1.00
State Technical College of Missouri	1.31	Dakota County Technical College	1.78	St Cloud Technical and Community College	1.23	Minnesota State College Southeast	1.04
Hocking College	1.62	North Dakota State College of Science	2.07	Northland Community and Technical College	1.41	Belmont College	1.05
North Iowa Area Community College	1.64	Southwest Wisconsin Technical College	2.26	Western Technical College	1.46	Blackhawk Technical College	1.15
Northland Community and Technical College	1.84	North Iowa Area Community College	2.28	Hocking College	1.51	Dakota County Technical College	1.16
Dakota County Technical College	1.92	Northwest Kansas Technical College	2.29	Minnesota State College Southeast	1.57	Helena College University of Montana	1.18
St Cloud Technical and Community College	1.96	St Cloud Technical and Community College	2.32	North Dakota State College of Science	1.58	Highlands College of Montana Tech	1.35
Highlands College of Montana Tech	1.99	Northland Community and Technical College	2.33	North Iowa Area Community College	1.60	Nicolet Area Technical College	1.42
Southwest Wisconsin Technical College	2.08	Highlands College of Montana Tech	2.42	Helena College University of Montana	1.64	Montcalm Community College	1.45
Minnesota State College Southeast	2.12	Anoka Technical College	2.55	State Technical College of Missouri	1.69	Hocking College	1.47
Northwest Kansas Technical College	2.13	Hocking College	2.59	Southwest Wisconsin Technical College	1.75	St Cloud Technical and Community College	1.49
Allen County Community College	2.25	Allen County Community College	2.59	Anoka Technical College	1.75	Northland Community and Technical College	1.55
Helena College University of Montana	2.26	Minnesota State College Southeast	2.60	Allen County Community College	1.77	Southwest Wisconsin Technical College	1.57
Western Technical College	2.33	Helena College University of Montana	2.65	Belmont College	1.79	Northwest Kansas Technical College	1.67
Belmont College	2.38	Belmont College	2.80	Highlands College of Montana Tech	1.79	North Dakota State College of Science	1.69
Anoka Technical College	2.50	Western Technical College	2.90	Nicolet Area Technical College	1.89	State Technical College of Missouri	1.76
Nicolet Area Technical College	2.64	Chippewa Valley Technical College	2.91	Montcalm Community College	2.05	Allen County Community College	1.77
Montcalm Community College	2.68	Flint Hills Technical College	3.01	Northwest Kansas Technical College	2.06	North Iowa Area Community College	1.77
Chippewa Valley Technical College	2.70	Montcalm Community College	3.02	Hennepin Technical College	2.09	Kansas City Kansas Community College	1.92
Flint Hills Technical College	2.71	Nicolet Area Technical College	3.02	Blackhawk Technical College	2.19	Flint Hills Technical College	2.09
Kansas City Kansas Community College	2.89	Saint Paul College	3.06	Saint Paul College	2.32	Hennepin Technical College	2.19
Blackhawk Technical College	2.96	Hennepin Technical College	3.12	Kansas City Kansas Community College	2.39	Western Technical College	2.23
Hennepin Technical College	3.11	Kansas City Kansas Community College	3.13	Flint Hills Technical College	2.39	Saint Paul College	2.30
Saint Paul College	3.21	Blackhawk Technical College	3.24	Chippewa Valley Technical College	2.45	Chippewa Valley Technical College	2.96
Northeast Wisconsin Technical College	3.56	Northeast Wisconsin Technical College	3.84	Northeast Wisconsin Technical College	3.20	Milwaukee Area Technical College	3.90
Milwaukee Area Technical College	4.06	Milwaukee Area Technical College	4.18	Milwaukee Area Technical College	3.43	Northeast Wisconsin Technical College	4.33

Validation: Attribute Comparisons

In order to evaluate the degree to which the peer index is valid, institutions in South Dakota are compared with peer institutions on variables that were included in the model. Differences between target and peer institutions should be minimal. The table in the addendum displays variables for possible peers of each South Dakota institution ordered by degree of similarity (rank one equals most similar). While the computation does not guarantee perfect matches, dissimilarities between the target institutions and their closest peers have been minimized as much as possible.

Recommended Peers for South Dakota Institutions

Based on the results, Table 4 lists the seven closest peer institutions for each South Dakota institution in order from most similar to least similar. Only institutions that award credentials in each South Dakota institution's top three fields of study are ranked.

TABLE 4. Top Seven Peer Institutions for Each South Dakota Institution

Lake Area Technical Institute ²	Mitchell Technical Institute ³	Southeast Technical Institute	Western Dakota Technical Institute
North Dakota State College of Science	State Technical College of Missouri	Dakota County Technical College	Anoka Technical College
State Technical College of Missouri	Dakota County Technical College	St. Cloud Technical and Community College	Minnesota State College Southeast
North Iowa Area Community College	North Dakota State College of Science	Northland Community and Technical College	Belmont College
Northland Community and Technical College	Southwest Wisconsin Technical College	Western Technical College	Blackhawk Technical College
Dakota County Technical College	North Iowa Area Community College	Hocking College	Dakota County Technical College
Southwest Wisconsin Technical College	Northwest Kansas Technical College	Minnesota State College Southeast	Helena College University of Montana
Northwest Kansas Technical College	Northland Community and Technical College	North Dakota State College of Science	Highlands College of Montana Tech

² The following institutions were removed as top seven peers to Lake Area Technical Institute due to not awarding credentials in all of Lake Area Technical Institute's top three fields of study: Hocking College, St. Cloud Technical and Community College, Highlands College of Montana Tech, Minnesota State College Southeast.

³ The following institution was removed as a top seven peer to Mitchell Technical Institute due to not awarding credentials in all of Mitchell Technical Institute's top three fields of study: St. Cloud Technical and Community College.

Final Remarks

This study estimated the degree of similarity among technical colleges in order to inform the selection of peers for South Dakota's four technical institutes. The study accounted for attributes related to institutional mission, student enrollment, academic profile, and state/regional context. The results allow administrators and system heads to identify their peer institutions, thereby improving their ability to assess performance and policy options under relatively similar circumstances. However, the importance of any indicator or dimension will depend on the performance outcome in question. For example, the percentage of part-time students will be more important in comparisons of graduation rates than cost of attendance. Future iterations of this study therefore may include additional or different variables to suit specific needs.

REFERENCES

- Bailey, T., Calcagno, J. C., Jenkins, D., Leinbach, T., & Kienzl, G. (2006). Is Student-Right-to-Know All You Should Know? An Analysis of Community College Graduation Rates. *Research in Higher Education*, 47(5), 491–519.
- Brinkman, P. T., & Teeter, D. J. (1987). Methods for selecting comparison groups. *New Directions for Institutional Research*, 1987(53), 5–23.
- Hawk, W. (2013). Expenditures of urban and rural households in 2011. Retrieved from <http://www.bls.gov/opub/btn/volume-2/expenditures-of-urban-and-rural-households-in-2011.htm>
- Horn, A. S. (2013). *The Selection of Peer States for Performance Benchmarking in Higher Education*. Midwestern Higher Education Compact.
- Horn, A. S., Horner, O. G., & Lee, G. (2019). Measuring the effectiveness of two-year colleges: a comparison of raw and value-added performance indicators. *Studies in Higher Education*, 44(1), 151–169.
- Horn, A. S., Jang, S.T., & Lee, G. (2019). Towards reasonable efficiency in degree production: A method for benchmarking the educational expenditures of postsecondary institutions. *KJEP*, in press.
- Horn, A. S., & Lee, G. (2016). The reliability and validity of using regression residuals to measure institutional effectiveness in promoting degree completion. *Research in Higher Education*, 57(4), 469–496.
- McGuinness, A. C., & Novak, R. (2011). The Statewide Public Agenda and Higher Education: Making It Work. *Trusteeship*, 19(2), 25–29.
- McLaughlin, G., Howard, R., & McLaughlin, J. (2011, May). *Forming and Using Peer Groups Based on Nearest Neighbors with IPEDS Data*. Presented at the Annual Forum of the Association for Institutional Research, Toronto, Ontario. Retrieved from
- National Center for Education Statistics. (n.d.). The Integrated Postsecondary Education Data System. Retrieved May 24, 2019, from <https://nces.ed.gov/ipeds/>
- South Dakota Department of Education. (2018). Postsecondary - SD Department of Education. Retrieved May 24, 2019, from <https://doe.sd.gov/octe/postsecondary.aspx>
- The Carnegie Classification of Institutions of Higher Education. (2018). Carnegie Classifications | Basic Classification Methodology. Retrieved May 24, 2019, from <http://carnegieclassifications.iu.edu/methodology/basic.php>
- Toutkoushian, R. K. (1999). The value of cost functions for policymaking and institutional research. *Research in Higher Education*, 40(1), 1–15.
- Xu, J. (2008). Using the IPEDS Peer Analysis System in Peer Group Selection. *Professional File*, 110(Winter 2008).

ADDENDUM

Comparing South Dakota Technical Institutes with Other Institutions on Enrollment and Academic Profile Attributes

Rank	Institution	State	% Pell	% Underrepresented Minority	% Older Students	% Part-Time	FTE enrollment	Associate degrees	Certificates of less than 2-years	Agriculture, Agriculture Operations	Health Professions	Mechanic and Repair Technologies/ Technicians
	Lake Area Technical Institute	SD	0.34	0.04	0.13	0.26	1,698	590	217	147	188	139
1	North Dakota State College of Science	ND	0.25	0.10	0.14	0.43	2,136	521	66	58	163	92
2	State Technical College of Missouri	MO	0.37	0.04	0.10	0.17	1,113	425	103	17	75	179
3	Hocking College	OH	0.49	0.14	0.16	0.37	2,536	680	428	223	213	-
4	North Iowa Area Community College	IA	0.26	0.09	0.14	0.54	1,884	441	439	53	389	34
5	Northland Community and Technical College	MN	0.30	0.14	0.33	0.63	1,994	537	589	211	421	82
6	Dakota County Technical College	MN	0.29	0.17	0.41	0.44	1,751	386	422	29	236	134
7	St. Cloud Technical and Community College	MN	0.41	0.18	0.28	0.48	2,862	883	250	-	285	90
8	Highlands College of Montana Tech	MT	0.31	0.07	0.18	0.49	521	72	63	-	24	33
9	Southwest Wisconsin Technical College	WI	0.33	0.03	0.26	0.69	1,285	224	451	61	401	23
10	Minnesota State College Southeast	MN	0.33	0.10	0.36	0.59	1,163	233	252	-	174	110
11	Northwest Kansas Technical College	KS	0.23	0.23	0.16	0.54	573	106	165	8	67	78
12	Allen County Community College	KS	0.21	0.15	0.20	0.60	1,534	255	195	7	200	-
13	Helena College University of Montana	MT	0.34	0.05	0.31	0.62	839	216	43	-	56	26
14	Western Technical College	WI	0.37	0.06	0.37	0.58	2,524	633	1,008	20	797	186
15	Belmont College	OH	0.53	0.02	0.29	0.54	734	197	55	-	108	-
16	Anoka Technical College	MN	0.37	0.13	0.46	0.54	1,192	220	364	5	384	22
17	Nicolet Area Technical College	WI	0.44	0.07	0.32	0.76	660	134	442	-	273	28
18	Montcalm Community College	MI	0.45	0.02	0.37	0.74	861	170	173	-	117	18
19	Chippewa Valley Technical College	WI	0.30	0.04	0.28	0.70	3,809	667	1,485	39	940	142
20	Flint Hills Technical College	KS	0.23	0.28	0.13	0.73	583	109	321	-	235	18
21	Kansas City Kansas Community College	KS	0.38	0.40	0.37	0.65	3,307	554	690	-	523	110
22	Blackhawk Technical College	WI	0.63	0.16	0.48	0.61	1,243	248	252	2	244	35
23	Hennepin Technical College	MN	0.37	0.31	0.55	0.63	2,961	610	913	13	324	260
24	Saint Paul College	MN	0.49	0.41	0.42	0.64	3,989	647	762	-	503	30
25	Northeast Wisconsin Technical College	WI	0.29	0.13	0.31	0.77	5,637	999	1,794	43	1,402	116
26	Milwaukee Area Technical College	WI	0.46	0.44	0.49	0.67	7,757	1,304	1,238	10	914	126

Rank	Institution	State	% Pell	% Underrepresented Minority	% Older Students	% Part-Time	FTE enrollment	Associate degrees	Certificates of less than 2-years	Agriculture, Agriculture Operations	Health Professions	Mechanic and Repair Technologies/ Technicians
	Mitchell Technical Institute	SD	0.27	0.06	0.20	0.28	965	350	193	127	145	69
1	State Technical College of Missouri	MO	0.37	0.04	0.10	0.17	1,113	425	103	17	62	75
2	Dakota County Technical College	MN	0.29	0.17	0.41	0.44	1,751	386	422	29	82	236
3	North Dakota State College of Science	ND	0.25	0.10	0.14	0.43	2,136	521	66	58	13	163
4	Southwest Wisconsin Technical College	WI	0.33	0.03	0.26	0.69	1,285	224	451	61	33	401
5	North Iowa Area Community College	IA	0.26	0.09	0.14	0.54	1,884	441	439	53	9	389
6	Northwest Kansas Technical College	KS	0.23	0.23	0.16	0.54	573	106	165	8	34	67
7	St. Cloud Technical and Community College	MN	0.41	0.18	0.28	0.48	2,862	883	250	-	55	285
8	Northland Community and Technical College	MN	0.30	0.14	0.33	0.63	1,994	537	589	211	33	421
9	Highlands College of Montana Tech	MT	0.31	0.07	0.18	0.49	521	72	63	-	4	24
10	Anoka Technical College	MN	0.37	0.13	0.46	0.54	1,192	220	364	5	29	384
11	Hocking College	OH	0.49	0.14	0.16	0.37	2,536	680	428	223	-	213
12	Allen County Community College	KS	0.21	0.15	0.20	0.60	1,534	255	195	7	-	200
13	Minnesota State College Southeast	MN	0.33	0.10	0.36	0.59	1,163	233	252	-	6	174
14	Helena College University of Montana	MT	0.34	0.05	0.31	0.62	839	216	43	-	-	56
15	Belmont College	OH	0.53	0.02	0.29	0.54	734	197	55	-	-	108
16	Western Technical College	WI	0.37	0.06	0.37	0.58	2,524	633	1,008	20	13	797
17	Chippewa Valley Technical College	WI	0.30	0.04	0.28	0.70	3,809	667	1,485	39	71	940
18	Flint Hills Technical College	KS	0.23	0.28	0.13	0.73	583	109	321	-	-	235
19	Montcalm Community College	MI	0.45	0.02	0.37	0.74	861	170	173	-	-	117
20	Nicolet Area Technical College	WI	0.44	0.07	0.32	0.76	660	134	442	-	-	273
21	Saint Paul College	MN	0.49	0.41	0.42	0.64	3,989	647	762	-	132	503
22	Hennepin Technical College	MN	0.37	0.31	0.55	0.63	2,961	610	913	13	42	324
23	Kansas City Kansas Community College	KS	0.38	0.40	0.37	0.65	3,307	554	690	-	39	523
24	Blackhawk Technical College	WI	0.63	0.16	0.48	0.61	1,243	248	252	2	15	244
25	Northeast Wisconsin Technical College	WI	0.29	0.13	0.31	0.77	5,637	999	1,794	43	63	1,402
26	Milwaukee Area Technical College	WI	0.46	0.44	0.49	0.67	7,757	1,304	1,238	10	135	914

Rank	Institution	State	% Pell	% Underrepresented Minority	% Older Students	% Part-Time	FTE enrollment	Associate degrees	Certificates of less than 2-years	Agriculture, Agriculture Operations	Health Professions	Mechanic and Repair Technologies/ Technicians
	Southeast Technical Institute	SD	0.35	0.06	0.30	0.36	1,701	600	307	241	129	240
1	Dakota County Technical College	MN	0.29	0.17	0.41	0.44	1,751	386	422	118	46	236
2	St. Cloud Technical and Community College	MN	0.41	0.18	0.28	0.48	2,862	883	250	136	30	285
3	Northland Community and Technical College	MN	0.30	0.14	0.33	0.63	1,994	537	589	114	21	421
4	Western Technical College	WI	0.37	0.06	0.37	0.58	2,524	633	1,008	231	70	797
5	Hocking College	OH	0.49	0.14	0.16	0.37	2,536	680	428	55	12	213
6	Minnesota State College Southeast	MN	0.33	0.10	0.36	0.59	1,163	233	252	40	16	174
7	North Dakota State College of Science	ND	0.25	0.10	0.14	0.43	2,136	521	66	27	7	163
8	North Iowa Area Community College	IA	0.26	0.09	0.14	0.54	1,884	441	439	49	7	389
9	Helena College University of Montana	MT	0.34	0.05	0.31	0.62	839	216	43	37	21	56
10	State Technical College of Missouri	MO	0.37	0.04	0.10	0.17	1,113	425	103	10	44	75
11	Southwest Wisconsin Technical College	WI	0.33	0.03	0.26	0.69	1,285	224	451	31	27	401
12	Anoka Technical College	MN	0.37	0.13	0.46	0.54	1,192	220	364	29	-	384
13	Allen County Community College	KS	0.21	0.15	0.20	0.60	1,534	255	195	54	10	200
14	Belmont College	OH	0.53	0.02	0.29	0.54	734	197	55	24	18	108
15	Highlands College of Montana Tech	MT	0.31	0.07	0.18	0.49	521	72	63	10	4	24
16	Nicolet Area Technical College	WI	0.44	0.07	0.32	0.76	660	134	442	71	37	273
17	Montcalm Community College	MI	0.45	0.02	0.37	0.74	861	170	173	21	2	117
18	Northwest Kansas Technical College	KS	0.23	0.23	0.16	0.54	573	106	165	19	4	67
19	Hennepin Technical College	MN	0.37	0.31	0.55	0.63	2,961	610	913	114	135	324
20	Blackhawk Technical College	WI	0.63	0.16	0.48	0.61	1,243	248	252	68	18	244
21	Saint Paul College	MN	0.49	0.41	0.42	0.64	3,989	647	762	153	79	503
22	Kansas City Kansas Community College	KS	0.38	0.40	0.37	0.65	3,307	554	690	28	16	523
23	Flint Hills Technical College	KS	0.23	0.28	0.13	0.73	583	109	321	21	19	235
24	Chippewa Valley Technical College	WI	0.30	0.04	0.28	0.70	3,809	667	1,485	253	320	940
25	Northeast Wisconsin Technical College	WI	0.29	0.13	0.31	0.77	5,637	999	1,794	445	148	1,402
26	Milwaukee Area Technical College	WI	0.46	0.44	0.49	0.67	7,757	1,304	1,238	359	129	914

Rank	Institution	State	% Pell	% Underrepresented Minority	% Older Students	% Part-Time	FTE enrollment	Associate degrees	Certificates of less than 2-years	Agriculture, Agriculture Operations	Health Professions	Mechanic and Repair Technologies/ Technicians
	Western Dakota Technical Institute	SD	0.48	0.17	0.38	0.41	763	204	101	29	118	51
1	Anoka Technical College	MN	0.37	0.13	0.46	0.54	1,192	220	364	29	384	78
2	Minnesota State College Southeast	MN	0.33	0.10	0.36	0.59	1,163	233	252	40	174	32
3	Belmont College	OH	0.53	0.02	0.29	0.54	734	197	55	24	108	12
4	Blackhawk Technical College	WI	0.63	0.16	0.48	0.61	1,243	248	252	68	244	45
5	Dakota County Technical College	MN	0.29	0.17	0.41	0.44	1,751	386	422	118	236	48
6	Helena College University of Montana	MT	0.34	0.05	0.31	0.62	839	216	43	37	56	45
7	Highlands College of Montana Tech	MT	0.31	0.07	0.18	0.49	521	72	63	10	24	33
8	Nicolet Area Technical College	WI	0.44	0.07	0.32	0.76	660	134	442	71	273	38
9	Montcalm Community College	MI	0.45	0.02	0.37	0.74	861	170	173	21	117	2
10	Hocking College	OH	0.49	0.14	0.16	0.37	2,536	680	428	55	213	14
11	St. Cloud Technical and Community College	MN	0.41	0.18	0.28	0.48	2,862	883	250	136	285	58
12	Northland Community and Technical College	MN	0.30	0.14	0.33	0.63	1,994	537	589	114	421	38
13	Southwest Wisconsin Technical College	WI	0.33	0.03	0.26	0.69	1,285	224	451	31	401	44
14	Northwest Kansas Technical College	KS	0.23	0.23	0.16	0.54	573	106	165	19	67	23
15	North Dakota State College of Science	ND	0.25	0.10	0.14	0.43	2,136	521	66	27	163	46
16	State Technical College of Missouri	MO	0.37	0.04	0.10	0.17	1,113	425	103	10	75	34
17	Allen County Community College	KS	0.21	0.15	0.20	0.60	1,534	255	195	54	200	-
18	North Iowa Area Community College	IA	0.26	0.09	0.14	0.54	1,884	441	439	49	389	37
19	Kansas City Kansas Community College	KS	0.38	0.40	0.37	0.65	3,307	554	690	28	523	41
20	Flint Hills Technical College	KS	0.23	0.28	0.13	0.73	583	109	321	21	235	12
21	Hennepin Technical College	MN	0.37	0.31	0.55	0.63	2,961	610	913	114	324	145
22	Western Technical College	WI	0.37	0.06	0.37	0.58	2,524	633	1,008	231	797	112
23	Saint Paul College	MN	0.49	0.41	0.42	0.64	3,989	647	762	153	503	136
24	Chippewa Valley Technical College	WI	0.30	0.04	0.28	0.70	3,809	667	1,485	253	940	94
25	Milwaukee Area Technical College	WI	0.46	0.44	0.49	0.67	7,757	1,304	1,238	359	914	105
26	Northeast Wisconsin Technical College	WI	0.29	0.13	0.31	0.77	5,637	999	1,794	445	1,402	177



105 Fifth Avenue South, Suite 450
Minneapolis, MN 55401
612-677-2777 or 855-767-MHEC
MHEC.ORG | mhec@mhec.org

Midwestern Higher Education Compact (MHEC)

Legislatively created, the Midwestern Higher Education Compact's purpose is to provide greater higher education opportunities and services in the Midwestern region. Collectively the 12 member states work together to create solutions that build higher education's capacity to better serve individuals, institutions, and states by leveraging the region's resources, expertise, ideas, and experiences through multi-state: convening, programs, research, and contracts.

Compact Leadership, 2018-19

President

Ms. Susan Heegaard

Chair

Dr. Ken Sauer, Senior
Associate Commissioner
and Chief Academic Officer,
Indiana Commission for
Higher Education

Vice Chair

Ms. Olivia Madison,
Professor Emerita and Dean
Emerita of Library Services,
Iowa State University

Treasurer

Dr. David Eisler, President,
Ferris State University

Past Chair

Mr. Tim Flakoll, Provost,
Tri-College University and
North Dakota Governor's
Designee