2022 State Performance Update
Supplement to Higher Education in Focus 2019
ABOUT THE MIDWESTERN HIGHER EDUCATION COMPACT

As an interstate compact, the Midwestern Higher Education Compact (MHEC) brings together midwestern states to develop and support best practices, collaborative efforts, and cost-sharing opportunities. Through these efforts it works to ensure strong, equitable postsecondary educational opportunities and outcomes for all.

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Data analyses were conducted by Shaun Williams-Wyche, Associate Director of Research and Data Analysis.

MHEC would like to acknowledge the helpful feedback of members of the Review Panel for State Policy and Performance Data.

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Additional indicators are available in the MHEC Interactive Dashboard: https://www.mhec.org/dashboard.

Updates to this report may be found at: https://www.mhec.org/policy-research.
This supplement to *Higher Education in Focus 2019* provides the latest data on a subset of indicators relevant to the goal of improving educational attainment in North Dakota. Performance indicators are categorized within five areas: Preparation, Participation, Affordability, Completion, and Finance. Most indicators provide the national and Midwest regional values as well as the median of the top five states in the nation as possible benchmarks. Most performance indicators are also disaggregated by family income and race/ethnicity to assess critical opportunity and achievement gaps.

The 2022 Performance Update contains the same indicators presented in previous updates with the exception of the enrollment indicator shown in Figure 3: the percentage of persons aged 18-24 who are currently enrolled or have completed some college or higher. While enrollment has been disaggregated by race and ethnicity in past updates, sampling problems that occurred during the 2020 administration of the American Community Survey did not allow reliable estimation of enrollment rates by race and ethnicity for the 2022 Performance Update.

The next version of *Higher Education in Focus* will be released in 2025 and every five years thereafter. The Performance Update will continue to be released annually during intervening years. For additional background, sources, and technical notes, see MHEC.ORG/policy-research for the full report. Additional indicators are available through the online interactive dashboard.

### Selected Performance Indicators

#### PREPARATION

- **Percentage of ACT-Tested High School Graduates in North Dakota Who Met or Exceeded College Readiness Benchmark Scores by Family Income**
- **Percentage of ACT-Tested High School Graduates in North Dakota Who Met or Exceeded College Readiness Benchmark Scores by Race and Ethnicity**

#### PARTICIPATION

- **Percentage of Persons Aged 18-24 Who Are Currently Enrolled or Have Completed Some College or Higher**
- **Percentage of Dependent 18- to 24-Year-Old Residents Who Are Currently Enrolled or Have Completed Some College or Higher by Family Income**

#### AFFORDABILITY

- **Percentage of Family Income Needed to Pay the Average Net Price of Full-Time Enrollment at Public Institutions for Low- and Median-Income Households**
- **Percentage of Family Income Needed to Pay the Average Net Price of Full-Time Enrollment at Public Two- and Four-Year Institutions in North Dakota by Race and Ethnicity**

#### COMPLETION

- **Percentage of First-Time, Full-Time, Degree/Certificate-Seeking Students Who Graduated Within Three Years From Their First Public Two-Year Institution and Graduated Within Six Years From Their First Four-Year Institution by Pell Grant Recipient Status**
- **Percentage of First-Time, Full-Time, Degree/Certificate-Seeking Students in North Dakota Who Transferred or Graduated Within Three Years From Their First Public Two-Year Institution and Graduated Within Six Years From Their First Four-Year Institution by Race and Ethnicity**

#### FINANCE

- **State and Local Educational Appropriations for Higher Education Per FTE Student**
- **State and Local Fiscal Support for Higher Education Per $1,000 of Personal Income**
- **State Need-Based Grant Aid Per FTE Undergraduate Student**
- **Percentage of State Aid Defined as Need Based**

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1 For more information, see U.S. Census Bureau. (2021). *An assessment of the COVID-19 pandemic’s impact on the 2020 ACS 1-year data*. See also the Interactive Dashboard for enrollment by race/ethnicity in previous years.
**Academic proficiency of high school graduates.** The proportion of high school graduates taking the ACT who meet college readiness benchmarks provides one measure of the academic preparation of college-bound students. Benchmark scores defined by ACT in English (18), mathematics (22), reading (22), and science (23) delineate a 75 percent likelihood of attaining a grade of “C” or higher in first-year college-level courses. The percentage of tested high school graduates meeting college readiness benchmarks is shown by family income and race/ethnicity.

**Figure 1: Percentage of ACT-Tested High School Graduates in North Dakota Who Met or Exceeded College Readiness Benchmark Scores by Family Income**

<table>
<thead>
<tr>
<th>Subject</th>
<th>$0-$24K</th>
<th>$24K to $50K</th>
<th>$50K to $80K</th>
<th>$80K to $120K</th>
<th>$120K and above</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>26</td>
<td>41</td>
<td>62</td>
<td>66</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>10</td>
<td>17</td>
<td>38</td>
<td>46</td>
<td></td>
</tr>
<tr>
<td>Reading</td>
<td>19</td>
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<td>45</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>Science</td>
<td>12</td>
<td>29</td>
<td>46</td>
<td>46</td>
<td></td>
</tr>
</tbody>
</table>

Over 60% of tested graduates from families with incomes greater than $80,000 in North Dakota met the ACT college readiness benchmark in English. However, academic preparation is strongly correlated with family income, as a much larger percentage of tested high school graduates from higher-income families met or exceeded college readiness benchmarks than graduates from lower-income families.
Figure 2. Percentage of ACT-Tested High School Graduates in North Dakota Who Met or Exceeded College Readiness Benchmark Scores by Race and Ethnicity

Source. ACT. (2022). U.S. high school graduating class trends. Note. The underrepresented minority category comprises American Indian, Black, and Hispanic graduates. Some Asian subgroups are underrepresented in higher education (e.g., Hmong) but cannot be separated from the Asian category. Estimates for Native Hawaiian/Other Pacific Islander graduates are unavailable due to small sample sizes.

About 20 percent of White tested graduates in North Dakota met or exceeded college the ACT readiness benchmarks in all four tested subjects, compared to 7 percent of underrepresented minority graduates.
Young adult enrollment. The participation of young adults in college is defined as the percentage of all 18- to 24-year-old adults in the state who are currently enrolled in college or have completed some college coursework/credits or a credential. Enrollment rates are provided for all young adults and family income groups. The enrollment gap by income is gauged by comparing college enrollment rates among dependent 18- to 24-year-old residents by the family income quartiles of all households in the state. Low income is represented by the bottom quartile, middle income by the second and third quartiles, and high income by the top quartile.²

Figure 3. Percentage of Persons Aged 18-24 Who Are Currently Enrolled or Have Completed Some College or Higher

The college enrollment rate of 18- to 24-year-olds in North Dakota declined between 2019 and 2021, though it remains above the Midwest and national benchmarks.

² Dissimilar to past editions of the Performance Update, enrollment is not disaggregated by race due to sampling problems that occurred during the 2020 administration of the American Community Survey. For more information, see U.S. Census Bureau. (2021). An Assessment of the COVID-19 Pandemic’s Impact on the 2020 ACS 1-Year Data. See also the Interactive Dashboard for enrollment by race/ethnicity in previous years.
The total college enrollment rate of dependent 18- to 24-year-olds in North Dakota meets the Midwest benchmark and exceeds the national benchmark. However, the enrollment rates of young adults from low- and middle-income families are considerably lower than the enrollment rate of young adults from high-income families. Similar disparities in college enrollment rates are seen across the Midwest and the nation.

Affordability

**Ability to pay.** The ability to pay for college is measured by the percentage of family income needed to pay the average net price of full-time enrollment at public two- and four-year institutions. The average institutional net price is calculated as the total cost of attendance (tuition and fees, books, supplies, and room and board) minus the average institutional, local, state, and federal grant aid. In order to assess the degree of affordability for students of different income levels, this indicator is presented for families with median income ($88,676 for North Dakota in 2020) and families with low income, which is defined as an income equal to the federal poverty level for a family of four ($26,200 in 2020). The indicator is also presented by the median income for families in each racial and ethnic group.

**Figure 5. Percentage of Family Income Needed to Pay the Average Net Price of Full-Time Enrollment at Public Institutions for Low- and Median-Income Households**


North Dakota ranks among the top five states in the affordability of four-year colleges for median-income students. However, four-year college attendance in North Dakota for students from low-income families requires 38 percent of family income, compared to 17 percent of income for students from median-income families. Two-year college attendance in North Dakota for students from low-income families requires 30 percent of family income, compared to 14 percent of income for students from median-income families. Similar differences in college affordability are seen across the Midwest and the nation.
Affordability

Figure 6. Percentage of Family Income Needed to Pay the Average Net Price of Full-Time Enrollment at Public Two- and Four-Year Institutions in North Dakota by Race and Ethnicity

Note. The underrepresented minority category consists of American Indian, Black, Hispanic, and Native Hawaiian/Other Pacific Islander families. Some estimates are unavailable due to small sample sizes. Some Asian subgroups are underrepresented in higher education (e.g., Hmong) but cannot be separated from the Asian category. Due to sampling problems that occurred during the 2020 administration of the American Community Survey, the 2020 income levels represent 2019 income adjusted for inflation to 2020.

College attendance in North Dakota requires a greater share of family income for underrepresented students than for White students. Underrepresented students are disproportionately represented among lower-income students.
Institutional graduation rates. Institutional graduation rates are defined by the proportion of first-time, full-time students who graduate at their beginning institution. Specifically, graduation rates at two-year colleges are measured by the proportion of first-time, full-time certificate/degree-seeking students in the fall 2017 cohort who completed an associate degree or certificate at the first public two-year college within three years (Figure 8 also counts students who transferred to another institution). Graduation rates at four-year institutions are defined by first-time, full-time, bachelor’s degree-seeking students in the fall 2014 cohort who completed a bachelor’s degree at their first four-year institution within six years (without accounting for transfer to another institution).

These indicators are provided for family income and racial/ethnic groups. The completion gap by income is estimated by comparing graduation rates among federal Pell Grant recipients and non-Pell recipients. In 2019-20, a dependent student from a family with a household size of four (two parents and two children) and an adjusted gross income of $60,000 or less would be eligible for a Pell Grant.

Figure 7. Percentage of First-Time, Full-Time Degree/Certificate-Seeking Students Who Graduated Within Three Years From Their First Public Two-Year Institution and Graduated Within Six Years From Their First Four-Year Institution by Pell Grant Recipient Status

The graduation rates at public two-year institutions in North Dakota rank among the top five states in the nation for both Pell recipients and non-Pell recipients. However, the graduation rates of low-income students (i.e., Pell Grant recipients) lag behind the graduation rates of higher-income students at both two- and four-year institutions. Similar disparities in college graduation rates are seen across the Midwest and the nation.
Completion

Figure 8. Percentage of First-Time, Full-Time, Degree/Certificate-Seeking Students in North Dakota Who Transferred or Graduated Within Three Years From Their First Public Two-Year Institution and Graduated Within Six Years From Their First Four-Year Institution by Race and Ethnicity

![Bar chart showing graduation rates by race and ethnicity for different types of institutions.]

Source. NCES IPEDS. (2020). Graduation rate. Note. The underrepresented minority category comprises American Indian, Black, Hispanic, and Native Hawaiian/Other Pacific Islander students. Some Asian subgroups are underrepresented in higher education (e.g., Hmong) but cannot be separated from the Asian category.

*Estimates for some racial and ethnic groups are unavailable due to small cohort sizes.

The graduation rates of American Indian, Black, and Hispanic students in North Dakota were lower than the graduation rates of White students across all types of institutions. However, data available in MHEC’s Interactive Dashboard show that the graduation rates for American Indian, Hispanic, and White students attending public two-year colleges in North Dakota exceeded the national benchmarks.
**Finance**

**Educational appropriations.** State and local educational appropriations for higher education include funds used for public institutional operating expenses and financial aid for students attending public institutions. These appropriations exclude spending for research, agriculture-related programs, and medical education, as well as support for private institutions or students attending them.

**State funding effort.** The state’s overall effort to fund higher education is portrayed as state and local fiscal support for higher education per $1,000 of personal income. This is one measure for assessing the level of funding for higher education relative to available resources. State and local fiscal support consists of state tax appropriations, local tax support, additional non-tax funds such as lottery revenue that support higher education, and funds appropriated to other state entities for specific higher education expenditures or benefits. State and local appropriations in this indicator are used for general operations, agriculture-related programs, public student aid, medical education, and support for independent institutions or students attending them.

**Need-based aid.** Two indicators reflect state investments in student grant aid. First, the level of state funding for grant aid based on financial need (relative to solely merit or other criteria) is measured by the amount of need-based grant aid per full-time equivalent (FTE) student. Second, the state’s commitment to providing need-based aid is measured by need-based aid as a percent of total grant aid allocations.

**Figure 9. State and Local Educational Appropriations for Higher Education Per FTE Student**

![Figure 9](image)


Consistent with the overall trend in the Midwest, state and local funding for higher education per FTE in North Dakota increased since 2019, though funding remains slightly below the Midwest and national levels.
Funding per $1,000 of personal income in North Dakota was above the Midwest and national levels in 2020.

Finance

Figure 11. State Need-Based Grant Aid Per FTE Undergraduate Student


Consistent with the overall trend in the Midwest, state need-based grant aid in North Dakota increased over the past decade, but aid was below the Midwest and national benchmarks in 2019-20.
Finance

Figure 12. Percentage of State Aid Defined as Need-Based

North Dakota allocates 59 percent of its grant aid based on financial need (rather than solely merit or other criteria), which is below the regional and national benchmarks.

Higher Education in Focus is produced on a periodic basis. The 2022 supplement supports Higher Education in Focus 2019. As MHEC prepares for the next version of Higher Education in Focus, feedback and ideas are welcomed on the content that will help support your state’s work.