WHY THE FINANCE MODEL FOR PUBLIC HIGHER EDUCATION IS BROKEN AND MUST BE FIXED

BY JONI E. FINNEY

The United States currently has the best 20th-century model for public finance of higher education in the world.

If the nation wishes to “tread water” in higher education degree attainment compared to other countries, as it now is doing, its outdated system of higher education finance will ensure this outcome. But, if the U.S. wants to increase both the quantity and quality of workforce certificates and degrees, its unsustainable and opaque finance model for higher education must be changed in order to rise to the challenges of the 21st century. The reasons for this go beyond some well-documented inefficiencies of our colleges and universities. This policy brief explores how the broken model of higher education finance reveals a fundamental mismatch between how we pay for public higher education and our current economic and social needs.

The first section of this policy brief describes the economic and demographic context in which higher education finance challenges must be resolved. The second section highlights the barriers that state governments erect that make the reform of public higher education finance challenging. Third, the brief focuses on specific state higher education finance policies that are mismatched with goals for a more educated nation. To encourage debate, the conclusion of the brief outlines a series of criteria that states should consider when implementing any higher education finance policy.

BRIEF IN BRIEF

- In order for the U.S. to remain competitive in the 21st-century economy, more individuals are going to need to earn workforce credentials and college degrees.
- While the need for a more educated workforce is rising, the students entering postsecondary education are increasingly diverse and coming from relatively modest economic means.
- At the same time, state governments have been facing financial challenges wrought by chronic structural budget deficits and rising Medicaid expenses, translating into reduced support for higher education.
- Instead, families now are expected to shoulder more of the burden of paying for higher education—increasingly, through loans and not grants—at a time when they are struggling with rising costs of living that exceed the growth in their incomes.
- The current system of higher education finance is unsustainable. This brief recommends that state leaders take action so as to insulate higher education funding during recessionary periods; incentivize innovation in the efficient use of public dollars; prioritize funding for low-income and first-generation students; and link tuition policy to family income.
The 21st-century economy requires that more individuals earn high-quality workforce credentials and college degrees than did the economy of the last century. By 2020, 65 percent of the population will require some form of postsecondary education (workforce certificate or degree) in order to be competitive in the new economy.¹ This translates into an average annual increase in degree productivity of approximately 10 percent.² While the number of workforce certificates and college degrees needed varies by state, no state can reach the necessary levels of education attainment based on current rates of college participation and completion, as well as the current rise in costs for attending colleges and universities.

Table 1 shows the projected percentage of jobs in the ten most populous states that will require at least some postsecondary education by 2020. In general, the percentage of certificates and degrees needed at the sub-baccalaureate level is larger than that needed at the baccalaureate level, though both are high.

The increasing demand for more education coincides with growing diversity in—but not limited to—the most populous states (see Table 2). For instance, the young population of Hispanics is growing in all but two of the ten most populous states. The young Black population is relatively stable in the proportion of high school graduates; but in four of the largest states (FL, GA, MI, NC), this young population will be larger than the national average by 2027, with Georgia leading the nation in the highest concentration of young Black high school graduates. The young Asian population of high school graduates is also increasing in many states, but their numbers are relatively small compared with other groups. Additionally, many new students entering postsecondary education are of modest economic means. For instance, the real median income of families by race in 2012 was $69,000 for Asians, $57,000 for non–Hispanic whites, $39,000 for Hispanics of any race and $33,000 for Blacks.³

### TABLE 1: WORKFORCE AND EDUCATION DEMANDS OF THE 10 MOST POPULOUS STATES

<table>
<thead>
<tr>
<th>State</th>
<th>2013 Population Rank</th>
<th>Percent of jobs in 2020 that will require:</th>
<th>Bachelor’s degree</th>
<th>Master’s degree or better</th>
</tr>
</thead>
<tbody>
<tr>
<td>California</td>
<td>1</td>
<td>67%</td>
<td>32%</td>
<td>24%</td>
</tr>
<tr>
<td>Texas</td>
<td>2</td>
<td>62%</td>
<td>33%</td>
<td>21%</td>
</tr>
<tr>
<td>New York</td>
<td>3</td>
<td>69%</td>
<td>28%</td>
<td>26%</td>
</tr>
<tr>
<td>Florida</td>
<td>4</td>
<td>65%</td>
<td>35%</td>
<td>21%</td>
</tr>
<tr>
<td>Illinois</td>
<td>5</td>
<td>70%</td>
<td>31%</td>
<td>26%</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>6</td>
<td>63%</td>
<td>29%</td>
<td>22%</td>
</tr>
<tr>
<td>Ohio</td>
<td>7</td>
<td>64%</td>
<td>34%</td>
<td>21%</td>
</tr>
<tr>
<td>Georgia</td>
<td>8</td>
<td>65%</td>
<td>33%</td>
<td>22%</td>
</tr>
<tr>
<td>Michigan</td>
<td>9</td>
<td>70%</td>
<td>37%</td>
<td>22%</td>
</tr>
<tr>
<td>North Carolina</td>
<td>10</td>
<td>67%</td>
<td>36%</td>
<td>22%</td>
</tr>
<tr>
<td>United States</td>
<td>N/A</td>
<td>65%</td>
<td>33%</td>
<td>23%</td>
</tr>
</tbody>
</table>

### STATE STRUCTURAL BUDGET DEFICITS

As economic growth slowed during the Great Recession, state revenues plummeted, resulting in large cuts to public services. While many states are now reinvesting modestly in higher education, it is unlikely that this funding will rebound to the levels of the late 1990s. State budget problems vary depending upon the nature of each state’s economy and demographic shifts in the state’s population, as well as the political capital needed to address budget challenges. But increasingly, the long-term imbalance between state revenues and state expenditures—referred to as structural budget deficits—has contributed to the volatility of state budgets since the 1980s. Economists define structural budget deficits as the “chronic inability of state revenues to

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⁵ Ibid.
⁷ Dennis Jones, State Shortfalls Projected to Continue Despite Economic Gain: Long-Term Prospects for Higher Education No Brighter (San Jose: National Center for Public Policy and Higher Education, 2006).
TABLE 2: RACIAL AND ETHNIC COMPOSITION OF HIGH SCHOOL GRADUATES AND PROJECTED GROWTH IN HISPANIC HIGH SCHOOL GRADUATES IN THE NATION AND THE 10 MOST POPULOUS STATES

<table>
<thead>
<tr>
<th>State</th>
<th>Asian</th>
<th>Black</th>
<th>Hispanic</th>
<th>Growth in Hispanic graduates (2012 - 2027)</th>
<th>Percent share of Nation’s total Hispanic graduates 2012</th>
<th>Percent share of Nation’s total Hispanic graduates 2027</th>
</tr>
</thead>
<tbody>
<tr>
<td>California</td>
<td>15%</td>
<td>6%</td>
<td>44%</td>
<td>7,548</td>
<td>5%</td>
<td>29%</td>
</tr>
<tr>
<td>Texas</td>
<td>4%</td>
<td>12%</td>
<td>45%</td>
<td>61,619</td>
<td>49%</td>
<td>22%</td>
</tr>
<tr>
<td>New York</td>
<td>9%</td>
<td>17%</td>
<td>18%</td>
<td>6,422</td>
<td>1%</td>
<td>6%</td>
</tr>
<tr>
<td>Florida</td>
<td>3%</td>
<td>21%</td>
<td>25%</td>
<td>13,198</td>
<td>35%</td>
<td>7%</td>
</tr>
<tr>
<td>Illinois</td>
<td>5%</td>
<td>16%</td>
<td>18%</td>
<td>(1,951)</td>
<td>-8%</td>
<td>4%</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>3%</td>
<td>13%</td>
<td>7%</td>
<td>6,492</td>
<td>76%</td>
<td>2%</td>
</tr>
<tr>
<td>Ohio</td>
<td>2%</td>
<td>13%</td>
<td>2%</td>
<td>1,608</td>
<td>58%</td>
<td>0%</td>
</tr>
<tr>
<td>Georgia</td>
<td>4%</td>
<td>36%</td>
<td>8%</td>
<td>6,486</td>
<td>89%</td>
<td>1%</td>
</tr>
<tr>
<td>Michigan</td>
<td>3%</td>
<td>18%</td>
<td>4%</td>
<td>(55)</td>
<td>-1%</td>
<td>1%</td>
</tr>
<tr>
<td>North Carolina</td>
<td>3%</td>
<td>26%</td>
<td>9%</td>
<td>273</td>
<td>85%</td>
<td>1%</td>
</tr>
<tr>
<td>Nation</td>
<td>6%</td>
<td>14%</td>
<td>19%</td>
<td>154,278</td>
<td>27%</td>
<td></td>
</tr>
</tbody>
</table>

Note: National rates include all 50 states and D.C. State ethnic shares are calculated as a percent of total state public high school graduates.


grow in tandem with economic growth and the cost of government. Several colliding trends cause these structural deficits, including: the shift from a goods to services economy in which many, if not most, services are untaxed; the growth of untaxed internet sales (at the expense of brick-and-mortar stores charging sales taxes); and the erosion of corporate taxes as the result of the easy movement of corporate headquarters to countries with lower tax rates, combined with spending and expenditure limitations passed in many states.5

State structural budget deficits can potentially harm all public services, but the impact on higher education has been especially damaging, triggering cuts in institutional appropriations and often in state programs for student financial aid. Because higher education is one of the few public services that can generate its own revenue, state leaders often acquiesce to institutional pleas for tuition increases during economic downturns. Rarely, if ever, does tuition then decline in the face of economic recovery (although this year several states have announced tuition freezes as the result of growing public pressure in response to years of increases).

Until the early 1990s, there was little political concern about structural budget deficits, since economic growth usually rebounded after short-lived recessions, masking longer term problems. During the last decade, many state budget analysts and think tanks called attention to the serious threat of structural deficits in terms of the long-term fiscal health of states, and the ability of states to continue to provide public services—particularly higher education.6 An analysis by the Rockefeller Institute predicted that between 2005-2013, every state would face a potential budget deficit based on expected revenues (status quo tax policies) and expected expenditures (status quo spending policies), with about 30 states facing deficits as large as 5 percent or more annually.7 Since this analysis, the Rockefeller Institute has refrained from updating projections of state structural budget deficits. The challenge involved in developing reliable projections of structural deficits arises from the ongoing reduction in federal outlays to states, increased demands for Medicaid, and a slow recovery in the housing market in many parts of the country.8 However, confirming the analysis of previous projections, the National Conference of State Legislatures shows that while state revenues for 2014 are gradually...
recovering from the large declines experienced during the Great Recession, the recovery is not sufficient to keep pace with the spending required by Medicaid costs, pensions and other state obligations. This perspective is reinforced in a Report of the State Budget Crisis Task Force, in which co-chairs Paul Volcker and Richard Ravitch point out: “The conclusion of the Task Force is unambiguous. The existing trajectory of state spending, taxation and administrative practice cannot be sustained. The basic problem is not cyclical. It is structural.”

Medicaid spending grows faster than public services

Contributing to state budget woes, specifically for higher education, is the growth of Medicaid. Medicaid consumes a greater portion of the state budgets than any other public service. Currently, all states participate in the Medicaid program. As Medicaid grows, so does its share of the general fund state budget. In 1987, Medicaid’s share of total state expenditures was 10.2 percent; in 2012 it was 23.9 percent. In contrast, between 1987 and 2012, state expenditures for higher education declined from 12.3 percent to 10.2 percent. While a declining share of the state budget does not necessarily mean a reduction for higher education budgets in good economic times (as the total general fund grows), the need to educate more Americans means either increased spending for higher education (tax increases or expenditure reductions in other public services), improved productivity in higher education, or both.

Furthermore, pressure on Medicaid is not likely to abate anytime soon. According to the National Conference of State Legislatures, about 41 million Americans (more than 1 in 8) are over age 65. By 2030, that number will jump to about 72 million, an increase from 13 to 20 percent. The cost of medical treatment for this population—dubbed the “Silver Tsunami”—also will increase. As Figure 1 shows, the growth

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**FIGURE 1:** COMPOSITION OF TOTAL STATE EXPENDITURES BY FUNCTION (2012 DOLLARS): 1987-2012

Source: National Association of State Budget Officers, State Expenditure Report, 2011-2013, Figure 5, Inflation adjustments by author.

**FIGURE 2:** PERCENT GROWTH IN EXPENSES FOR HIGHER EDUCATION AND OTHER GOODS, 1982-84 TO 2013

Note: Percent Growth is from an average of 1982, 1983, 1984 prices. Using an average helps control for outlier data where prices had uncharacteristic spikes in one year. Median Family Income data is from 1982-84 to 2012: (2012 is the most recent data available).

in Medicaid expenditures poses a significant threat to the ability of states to invest in higher education.

**FINANCIAL PRESSURES ON FAMILIES ARE GROWING**

The economic pressures facing families are a third force influencing an unsustainable cost model for higher education. This means there will be real limits to relying on steep tuition increases as a way to improve funding for higher education. Figure 2 shows the growth in many family expenses, but the large growth of tuition and fees from the mid 1980s-2013 (632 percent) is notable, particularly in comparison to the lower increase in family income (152 percent) and the often-cited (and much lower) increase in health care costs (325 percent).

**THE MISMATCH BETWEEN FINANCE POLICIES AND EDUCATIONAL NEEDS**

Intertwined with the larger public context just described are state higher education policies that are mismatched with the changing economic and demographic environment of the states. These policies are characterized by: (1) a shift in who pays for higher education; (2) an increase in the portion of family income required to pay for postsecondary education; (3) state-funded financial aid programs that cannot keep pace with tuition increases; and (4) a shift from grants to loans.

**STATE BUDGET VOLATILITY AND COST SHIFTS**

Figure 3 shows the volatility of state budgets for higher education as a result of structural budget deficits. Data from the early 1990s, early 2000s and again after the Great Recession show that states reduced support per student during these times. While state support for higher education per enrolled student rebounded after the early 1990s, it has not rebounded since the recession in 2001.

Figure 3 also shows that total revenue available for higher education from net tuition and state/local governments has remained largely unchanged from 1987-2012, even after adjusting for inflation. Total state and local appropriations plus net tuition revenue (tuition less all financial aid) per full-time student was $11,095 in 1987 and $11,085 in 2012. During the peak years of 1998-2001, support from the states grew, even as enrollment was relatively flat. The decline in state support for higher education during the Great Recession was softened as a result of an infusion of stimulus dollars from the American Recovery and Reinvestment Act (ARRA). Funds from ARRA were used to supplement state and local funding for education from 2009-11 (and are included in Figure 3). By 2012, however, most of these dollars were depleted and state and local support for higher education fell 7 percent.12

Most notable in Figure 3 is the shift in who pays for postsecondary education. Total revenue per student from state and local governments declined from $8,497 in 1987 to $5,906 in 2012, while net tuition revenue per student increased in constant dollars from $2,588 in 1987 to $5,189 in 2012. Currently, on average, 47 percent of the net tuition revenues (in inflation-adjusted dollars) for public higher education comes from students. It is important to note there are wide variations in these trends among the states based on economic conditions, the philosophy of funding higher education and other factors.

Also notable in Figure 3 is the consistent growth in enrollment from about 7 million students in 1987 to about 12 million in 2012. This is likely the result of an economy that rewards postsecondary education credentials and the counter-cyclical nature of higher education enrollments (more students enrolling during economically poor times) to protect against downward economic mobility. However, higher enrollments have not substantially resulted in higher degree attainment. Degree attainment has remained relatively flat since the early 1990s.13

**SHARE OF FAMILY INCOME REQUIRED TO PAY FOR HIGHER EDUCATION**

Figure 3 shows the average net tuition revenue to higher education from all students and families, but Table 3 shows how tuition affects lower- and middle-income families differently.14

For middle-income families, the net cost as a share of family income to attend
a public two- or four-year institution increased from about 13 percent to 14 percent between 2008-09 and 2011-12. For these same families to attend a public four-year institution, the net cost as a percent of family income to pay educational expenses increased from about 17 percent to about 19 percent. Median family income grew slightly during this time, but the share of income these families must pay to attend either a public two-year or four-year institution consumes a significant portion of family income, especially as other family expenses grow (shown earlier in Figure 2).

Lower-income families must commit an even greater portion of family income to attend either a public two-year or four-year institution, after all financial aid. For low-income families, the share of family income to pay for educational expenses at a public two-year institution increased from 46 percent to nearly 50 percent between 2008-09 and 2011-12. For those same families to attend a public four-year institution, the net cost increased from about 61 percent to 69 percent during the same period.

The large financial commitment required of these families to enroll in postsecondary education undermines not only access, but also the likelihood of completion. Many low- and middle-income students are left with few options: amass large amounts of debt to enroll, work more hours to pay for postsecondary education (which may require remaining in school for an additional year or more) or simply postpone or forgo enrollment in higher education. Unfortunately the level of educational attainment has remained relatively flat, increasing from 28 to 32 percent from 1990-2013, but with growing gaps in educational attainment by race.¹⁵

### STATE FINANCIAL AID PROGRAMS CANNOT KEEP PACE WITH TUITION INCREASES

During the Great Recession, few states were able to invest enough in their financial aid programs to keep up with the rising cost of higher education, thereby resulting in a decline of purchasing power for aid programs. While total spending on state undergraduate grant aid increased in con-
constant dollars from $6.5 billion in 2001-02 to $9.4 billion in 2011-12, state grant aid per undergraduate student moved from $620 in 2001-02 to $700 in 2006-07 to $670 in 2011-12.

State investment in need-based student financial aid is woefully inadequate in light of the changing demographics and must be fundamentally rethought to meet changing economic and demographic needs.

POLICY SHIFT FROM GRANTS TO LOANS

Even though grant dollars have recently grown, Figure 4 shows the general policy shift over time from a reliance on grants to a reliance on loans, to pay for postsecondary education, taking into account all grant aid (institutional, state and federal). These trends are particularly problematic for low-income students: evidence suggests that low-income students are discouraged by tuition increases, as they are reluctant to amass large amounts of debt.¹⁶

Loans obviously play an important role in financial planning for college. However, little is known about what level of debt is appropriate given educational costs for students at different income levels attending different types of institutions. Most worrisome is the number of students who begin postsecondary education and fail to complete but are still saddled with debt without the benefit of an educational credential that might lead to higher earnings.

CONCLUSION

The political leadership for addressing these complicated and intertwined challenges is sorely lacking. Public investments in higher education, coupled with courageous political and institutional leadership, paid off in catapulting the nation after World War II into becoming the most advanced economy in the world. While the context for states and the nation has changed, the challenge for leadership is just as compelling. Recent research reveals the importance of state policy leadership in creating a new framework for higher education to meet contemporary needs.¹⁷ It is beyond the scope of this brief to offer specific policy recommendations, but any public policy to address these problems should pass a litmus test. For the sake of debate, I propose the following criteria for consideration: (1) state policy must prevent disproportionate harm to higher education funding, compared to other state services, during times of recession; (2) state policy should provide powerful incentives for innovative efforts to effectively and efficiently use public dollars; (3) state policy should prioritize support to first-generation and low-income students and the institutions that most effectively and efficiently serve them; (4) tuition policy should be linked to family income. While others may disagree or propose additional criteria, the fact remains that a policy debate about how the nation and states finance the future of American higher education is long overdue.

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Joni E. Finney, PhD
Practice Professor, University of Pennsylvania
Graduate School of Education

Dr. Finney is Professor of Practice at Penn’s Graduate School of Education and Director of the Institute for Research in Higher Education (IRHE). She teaches graduate courses in the public finance of higher education and public policies and higher education. Prior to that she was vice-president of the National Center for Public Policy and Higher Education from 1997-2007. She also has held senior policy positions at the California Higher Education Policy Center and the Education Commission of the States. For over 25 years, Dr. Finney has worked with state and national leaders on improving public policy for higher education.

Dr. Finney pioneered the development of Measuring Up, the nation’s first report card on higher education. She currently researches state policy and its relationship to state performance; she also assists states in developing public policies to increase educational attainment and reduce gaps in performance. Most recently, she co-authored The Attainment Agenda: State Policy Leadership in Higher Education.

Dr. Finney is a frequent speaker, resource for the media, and advisor to non-for-profit policy organizations. She is a board member for the National Clearinghouse Research Center and Research for Action. She chairs the national selection committee for the Virginia B. Smith Innovative Leadership Award sponsored by the Higher Education Policy Institute and the Council for Adult and Experimental Learning.

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