

COMMITTEE TO STUDY THE FUNDING OF HIGHER EDUCATION (SENATE BILL 374, 2011 LEGISLATURE)



**Wednesday, August 29, 2012
9:00 a.m.**

**University of Nevada, Las Vegas
Student Union Building
Ballroom, Second Floor
4505 South Maryland Parkway
Las Vegas, Nevada**

Videoconference to:

**Legislative Building
Room 3137
401 South Carson Street
Carson City, Nevada**

**Great Basin College
Berg Hall Conference Room
1500 College Parkway
Elko, Nevada**

**Western Nevada College
Piñon Hall, Room 203
160 Campus Way
Fallon, Nevada**

STATE OF NEVADA
LEGISLATIVE COUNSEL BUREAU

LEGISLATIVE COMMISSION (775) 684-6800
STEVEN A. HORSFORD, *Senator, Chairman*
RICK COMBS, *Director, Secretary*

CARSON CITY OFFICE:

Legislative Building, 401 S. Carson Street
Carson City, Nevada 89701-4747
Fax No.: (775) 684-6600

RICK COMBS, *Director* (775) 684-6800

BRENDA J. ERDOES, *Legislative Counsel* (775) 684-6830

PAUL V. TOWNSEND, *Legislative Auditor* (775) 684-6815

DONALD O. WILLIAMS, *Research Director* (775) 684-6825



INTERIM FINANCE COMMITTEE (775) 684-6821

DEBBIE SMITH, *Assemblywoman, Chair*
Mike Chapman, *Acting Fiscal Analyst*
Mark Krmpotic, *Fiscal Analyst*

LAS VEGAS OFFICE:

555 E. Washington Avenue, Room 4400
Las Vegas, Nevada 89101-1049

Fax No.: (702) 486-2810

BRIAN L. DAVIE, *Legislative Services Officer* (702) 486-2800

MEETING NOTICE AND AGENDA

Name of Organization: COMMITTEE TO STUDY THE FUNDING OF HIGHER
EDUCATION (SENATE BILL 374, 2011 LEGISLATURE)

Date and Time of Meeting: August 29, 2012 – 9:00 a.m.

Place of Meeting: University of Nevada, Las Vegas
Student Union Building
Ballroom, Second Floor
4505 South Maryland Parkway
Las Vegas, Nevada

Note: Some members of the committee may be attending the meeting and other persons may observe the meeting and provide testimony through a simultaneous videoconference conducted at the following locations:

Western Nevada College
Piñon Hall, Room 203
160 Campus Way
Fallon, Nevada

Legislative Building
Room 3137
401 South Carson Street
Carson City, Nevada

Great Basin College
Berg Hall Conference Room
1500 College Parkway
Elko, Nevada

If you cannot attend the meeting, you can listen to or view it live over the Internet. The address for the Nevada Legislature website is <http://www.leg.state.nv.us>. Click on the link "Live Meetings – Listen or View."

Note: Please provide the secretary with electronic or written copies of testimony and visual presentations if you wish to have complete versions included as exhibits with the minutes.

A G E N D A

Note: Items on this agenda may be taken in a different order than listed. Two or more agenda items may be combined for consideration. An item may be removed from this agenda or discussion relating to an item on this agenda may be delayed at any time.

I. ROLL CALL.

II. PUBLIC COMMENT.

(Because of time considerations, the period for public comment by each speaker may be limited, and speakers are urged to avoid repetition of comments made by previous speakers.)

III. REVIEW OF SENATE BILL 374 APPROVED BY THE 2011 LEGISLATURE AND THE RESPONSIBILITIES OF THE COMMITTEE TO STUDY THE FUNDING OF HIGHER EDUCATION.

*For
Possible
Action*

IV. REVIEW AND DISCUSSION OF SUBCOMMITTEE REPORTS INCLUDING RECOMMENDATIONS ADOPTED BY EACH SUBCOMMITTEE:
a. FUNDING FORMULA SUBCOMMITTEE
b. PERFORMANCE POOL, ECONOMIC AND WORKFORCE DEVELOPMENT AND RESEARCH SUBCOMMITTEE
c. COMMUNITY COLLEGE FUNDING SUBCOMMITTEE

*For
Possible
Action*

V. REVIEW AND DISCUSSION OF RECOMMENDATIONS TO THE LEGISLATIVE COMMISSION PERTAINING TO THE FUNDING OF HIGHER EDUCATION IN NEVADA.

*For
Possible
Action*

VI. RESUBMISSION BY SRI INTERNATIONAL OF FINAL UPDATED VERSION OF DELIVERABLE #4, STATES' METHODS OF FUNDING HIGHER EDUCATION.

VII. PUBLIC COMMENT.

(Because of time considerations, the period for public comment by each speaker may be limited, and speakers are urged to avoid repetition of comments made by previous speakers.)

VIII. ADJOURNMENT.

Note: We are pleased to make reasonable accommodations for members of the public who are disabled and wish to attend the meeting. If special arrangements for the meeting are necessary, please notify the Fiscal Analysis Division of the Legislative Counsel Bureau, in writing, at the Legislative Building, 401 South Carson Street, Carson City, Nevada 89701-4747, or call the Fiscal Analysis Division at (775) 684-6821 as soon as possible.

Notice of this meeting was posted in the following Carson City, Nevada, locations: Blasdel Building, 209 East Musser Street; Capitol Press Corps, Basement, Capitol Building; City Hall, 201 North Carson Street; Legislative Building, 401 South Carson Street; and Nevada State Library, 100 Stewart Street. Notice of this meeting was faxed for posting to the following Las Vegas, Nevada, locations: Clark County Government Center, 500 South Grand Central Parkway; and Grant Sawyer State Office Building, 555 East Washington Avenue. Notice of this meeting was posted on the Internet through the Nevada Legislature's website at www.leg.state.nv.us.

SENATE BILL 374 OF THE 2011 LEGISLATURE

CHAPTER.....

AN ACT relating to higher education; creating the Committee to Study the Funding of Higher Education; prescribing the powers and duties of the Committee; making appropriations; and providing other matters properly relating thereto.

Legislative Counsel's Digest:

This bill creates the Committee to Study the Funding of Higher Education, establishes the composition of the Committee and prescribes the powers and duties of the Committee. This bill further makes appropriations for the purposes of: (1) conducting a study of the funding of higher education; and (2) paying for the cost of the participation of the members of the Committee who are Legislators.

EXPLANATION — Matter in *bolded italics* is new; matter between brackets ~~(omitted material)~~ is material to be omitted.

THE PEOPLE OF THE STATE OF NEVADA, REPRESENTED IN
SENATE AND ASSEMBLY, DO ENACT AS FOLLOWS:

Section 1. 1. The Committee to Study the Funding of Higher Education, consisting of 12 voting members and 4 nonvoting members, is hereby created.

2. The following persons shall serve as voting members of the Committee:

(a) Three members of the Senate, two of whom are appointed by the Majority Leader of the Senate and one of whom is appointed by the Minority Leader of the Senate;

(b) Three members of the Assembly, two of whom are appointed by the Speaker of the Assembly and one of whom is appointed by the Minority Leader of the Assembly;

(c) Three members of the Board of Regents of the University of Nevada, appointed by the Chair of that Board; and

(d) Three members appointed by the Governor.

3. The Governor shall appoint the following persons to serve as the nonvoting members of the Committee:

(a) One person who is employed in the Budget Division of the Department of Administration; and

(b) Three persons who are employed by the Nevada System of Higher Education.

4. The Chair of the Legislative Commission shall designate one of the members of the Committee as Chair of the Committee.

5. The Director of the Legislative Counsel Bureau shall provide the necessary professional staff and a secretary for the Committee.



6. For each day or portion of a day during which they attend a meeting of the Committee or are otherwise engaged in the business of the Committee:

(a) The voting members of the Committee who are Legislators are entitled to receive the compensation provided for a majority of the members of the Legislature during the first 60 days of the preceding regular session, plus the per diem allowance provided for state officers and employees generally and the travel expenses provided pursuant to NRS 218A.655.

(b) The voting members of the Committee who are members of the Board of Regents of the University of Nevada are entitled to receive travel expenses and a per diem allowance at the rates established in NRS 396.070.

(c) The voting members of the Committee appointed by the Governor are entitled to receive the per diem allowance and travel expenses provided for state officers and employees generally.

Sec. 2. The Committee shall:

1. Compare the existing method of funding higher education in Nevada with the methods used in other states;

2. Determine whether the other methods would be appropriate and useful in Nevada, whereby different missions of universities, state college, colleges and research institutes are appropriately considered in the funding of public higher education in Nevada;

3. Review the funding of remediation in the context of instructional delivery methods;

4. Consider the retention of resident registration fees and nonresident tuition outside of the state supported operating budget;

5. Consider funding in the context of completed courses in contrast to the current method of funding enrollments; and

6. Consider rewarding institutions within higher education for achieving defined goals for graduating students.

Sec. 3. The Committee may hold public hearings at such times and places as it deems necessary to afford the general public and representatives of governmental agencies and of organizations interested in higher education an opportunity to present relevant information and recommendations.

Sec. 4. The Committee may employ such educational and financial consultants as it deems necessary for this study.

Sec. 5. The Committee may accept and use all gifts and grants which it receives to further its work.

Sec. 6. There is hereby appropriated from the State General Fund to the Legislative Fund the sum of \$150,000 for the purpose of



conducting a study of the funding of higher education as provided in sections 1 to 5, inclusive, of this act.

Sec. 7. There is hereby appropriated from the State General Fund to the Legislative Fund the sum of \$18,064 for the purpose of the paying for the cost of the participation of the members of the Committee who are Legislators as provided in sections 1 to 5, inclusive, of this act.

Sec. 8. Any remaining balance of the appropriation made by section 6 or 7 of this act must not be committed for expenditure after June 30, 2013, by the entity to which the appropriation is made or any entity to which money from the appropriation is granted or otherwise transferred in any manner, and any portion of the appropriated money remaining must not be spent for any purpose after September 20, 2013, by either the entity to which the money was appropriated or the entity to which the money was subsequently granted or transferred, and must be reverted to the State General Fund on or before September 20, 2013.

Sec. 9. The Committee shall submit to the Legislative Commission a report of its findings and recommendations for legislation before the commencement of the 77th Session of the Nevada Legislature.

Sec. 10. This act becomes effective on July 1, 2011.



**FUNDING FORMULA
SUBCOMMITTEE**

**COMMITTEE TO STUDY THE FUNDING OF HIGHER EDUCATION'S
FUNDING FORMULA SUBCOMMITTEE
(SENATE BILL 374, 2011 LEGISLATURE)**

WORK SESSION

August 15, 2012

As Subcommittee members are aware, each Subcommittee was tasked with reviewing key areas pertaining to the funding of higher education in Nevada and forwarding recommendations for the Committee's consideration at its final meeting on Wednesday, August 29, 2012. At its June 20, 2012, and July 11, 2012, meetings the Funding Formula Subcommittee reviewed and discussed major issues related to the existing funding formula as well as the alternative formula model proposed by the Nevada System of Higher Education (NSHE). The major issues listed and discussed below represent the main policy aspects for which the Subcommittee will want to consider making recommendations. Additionally, when formulating recommendations, members may wish to consider recommendations which are time specific and contain a recommendation that a particular formula aspect be reexamined, and adjusted, as determined appropriate by the Legislature after being implemented over one or several biennia.

Major Funding Formula Issues

1. Primary Formula Driver: Resident Student Credit Hours (Enrolled vs. Completed vs. Successfully Completed)
2. Credit Hour Projection Approach (Flat vs. Multi-Year, Weighted)
3. Weighting of Student Credit Hours
4. Small Institution Funding for Administrative Infrastructure Costs
5. Funding of Operations and Maintenance Costs
6. Funding of Research-Related Operating Costs
7. Funding of Remedial Instruction
8. Inclusion/Exclusion of the Medical, Law and Dental Schools in Funding Formula
9. Inclusion/Exclusion of the Desert Research Institute in Funding Formula
10. New Formula Implementation (Multi-Year Phase-In vs. Single Year)

1. Primary Formula Driver: Resident Student Credit Hours (Enrolled vs. Completed vs. Successfully Completed)

Summary of Issue: As detailed by SRI International, of the 31 states which utilize funding formulas to fund all or part of their system(s) of higher education, the majority (27) utilize a funding formula with student enrollments (SFTE) calculated based upon credit hours to be attempted as the primary driver or determinant of 'need.' In addition to the 27 states, 2 other states (Louisiana, New Mexico) utilize course completions, while another 2 states (Ohio, Tennessee) utilize 'successful' course completions (grades \geq D-). According to SRI International, there does not appear to be a national best practice upon which the Subcommittee can draw. Rather, SRI International suggests the emphasis should be on what action or behavior the Subcommittee wants to incentivize. The existing, but suspended, higher education funding formula is based upon enrollments or credit hours to be attempted.

As proposed by the NSHE, the primary driver of a new funding formula should be resident completed credit hours. Credit hours for non-resident students are excluded.

Information was also provided on how credit hours are treated for purposes of funding by the federal student financial aid system, the U.S. Department of Veterans Affairs and the United States Armed Services. Finally, the Subcommittee heard testimony that when considering a definition of “course completion” the Subcommittee should consider including (in the count of student credit hours) completed credit hours with a letter grade of “F” when associated with students who otherwise attended class, performed the work/assignments, took the exams yet failed the course. As proposed by the NSHE, all letter grades except withdrawals (W) have been included in the definition of a completed credit hour. These include failure (F), incomplete (I), unsatisfactory (U), audit (AU), and continuing (X).

At its July 11, 2012, meeting the Subcommittee reviewed information provided by the Chancellor’s Office that showed the effect of excluding “F” grades from the count of completed credit hours. Additionally, the NSHE provided two scenarios (scenarios G and H) in which “F” grades at the community colleges retained 75.0 percent and 50.0 percent of their credit value, respectively. The Subcommittee requested that a scenario be produced, which excluded the student credit hours associated with “F” grades awarded for non-attendance/non-effort by the student. Updated information and a scenario has been provided under Question #4 on page 7 of the NSHE’s August 6, 2012, response to the Subcommittee’s July 11, 2012, meeting questions. The revised scenario in which an estimate of the credit hours associated with “F” grades for non-attendance have been removed from the count of completed weighted credit hours is included as Appendix E on page 18 of the response. Based upon the provisional data, the primary impact is to remove 66,958 weighted credit hours. While all institutions’ credit hours decrease, excluding UNR for non-comparable data, the largest decreases occur at CSN (32,931), TMCC (15,345) and UNLV (14,495), respectively. According to the Chancellor’s Office only 7.2 percent of UNR’s “F” grades had a date of last attendance noted. At the other institutions, the percentage of “F” grades with dates of last attendance ranged from 85.7 percent (TMCC) to 100 percent (NSC and GBC).

Staff notes for the Subcommittee that in Appendix E, UNR has been treated as if its data and data practices are the same as the other institutions. The count of weighted student credit hours for UNR has been reduced by 704 from 659,685 in the original proposal (Appendix C) to 658,981 in Appendix E. As a result, it is likely that the distribution of funding based upon the exclusion of “FN” grades (“F” grades for non-attendance) reflected in Appendix E would be different if all institutions applied the same data definition and data collection practice with respect to “FN” grades.

The Subcommittee has several options in terms of recommending a primary “driver” for a funding formula, including:

- a. Resident credit hours to be attempted (enrollments).**
- b. Resident completed credit hours, inclusive of all letter grades except “W”.**

- c. Resident completed credit hours with certain letter grades excluded. If the Subcommittee chooses this option, the Subcommittee's recommendation should specify which letter grade-associated credit hours are excluded from the overall count of credit hours. The Subcommittee may also wish to address whether the exclusions apply equally at all institutions.
- d. Resident successfully completed credit hours in which all letter grades other than A through D and X (continuing) are excluded.
- e. Alternately, the Subcommittee may wish to recommend that the NSHE recalculate the count of weighted student credit hours shown in Appendix E with all "F" grades excluded, but also recommend that NSHE institutions can apply, based upon criteria to be established, to be reimbursed for weighted credit hours associated with "F" grades until such time as uniform grade definition and data collection processes are established across the institutions.

What primary "driver" does the Subcommittee wish to recommend as the basis for the funding formula?

2. Credit Hour Projection Approach: Flat vs. Multi-Year, Weighted

Summary of Issue: For purposes of determining 'need' and the distribution of appropriated funding, funding formulas require an approach to project the number of student credit hours or student full-time equivalents (SFTE) for a particular budgetary period, such as the upcoming 2013-15 biennium. Credit hours are often converted into SFTEs. According to information presented by SRI International, of the formula states for which specific information was identified, the approaches used by formula states to project credit hours and SFTEs were based on points in time, prior year actuals or multi-year averages, both weighted and unweighted. Based upon the information presented by SRI International, it does not appear that there is a recognized, national best practice.

Flat Approach: The NSHE's alternative funding formula projects student credit hours for FY 2014 and FY 2015 as flat to FY 2012. Staff explained to the Subcommittee that consistent with current practices, if "flat" was the recommended projection approach, the credit hour data would most likely be updated during the 2013 Legislative Session to reflect the most current data then available. The 2009 and 2011 Legislatures utilized the "flat" approach for purposes of projecting 2009-11 and 2011-13 biennium enrollments, respectively.

Multi-Year Weighted Approach: Under the existing, but suspended, funding formula, student credit hours were projected as SFTE enrollments based upon a 3-year weighted average in which the year-over-year actual change in SFTE at an institution (for the three most recent years) is used to derive annual 'growth rates.' Each year's growth rate is then multiplied by a weighting of 50-30-20 percent corresponding to the year's recentness. The weighted growth rates are then added together to generate an annual growth rate that is then projected forward to each fiscal year of the next biennium.

At its July 11, 2012, meeting the Subcommittee compared the two approaches' impact on credit hour projections for the 2013-15 biennium. If a "flat" approach is recommended, credit hours would remain constant, compared to FY 2012 (or FY 2013) at each institution while under the multi-year weighted average approach credit hours were projected to decrease at UNLV, CSN, GBC, TMCC and WNC and increase at UNR and NSC.

As noted, the Subcommittee has discussed the two options in terms of recommending an approach to project student credit hours for a funding formula. These are:

- a. Adopt Flat To A Base Year.** If the Subcommittee chooses this option, the Subcommittee should include in its recommendation the fiscal year that will serve as the base year for projection purposes.
- b. Adopt Multi-Year, Weighted Average.** If the Subcommittee chooses this option, the Subcommittee's recommendation should include the number of years as well as the corresponding weights. The Subcommittee may also want the Chancellor's Office to provide updated credit hour projections for each of the institutions.

What recommendation does the Subcommittee wish to make?

3. Weighting of Student Credit Hours

Summary of Issue: As proposed by the NSHE, student credit hours are weighted to account for the difference in the "cost to provide" based upon a standardized taxonomy in which subject matter topics (English Language, Mathematics, Physical Sciences) are organized into discipline clusters and then categorized by lower division, upper division, master's and doctoral-level groupings. While the proposed cost weightings are horizontally and vertically uniform within discipline clusters, the proposed weightings vary across discipline clusters. The NSHE's cost weighting proposal is represented as being "cost-informed," based upon the National Center for Higher Education Management Systems' (NCHEMS) analysis of cost studies performed by the states of Florida, Illinois, Ohio and Texas. All four states utilize cost-based weighting systems. As proposed by the NSHE, undergraduate credit hours have neither been weighted to account for cost differences between the three institutional tiers (university, state college, community college) nor for policy reasons, such as incentivizing the completion of science, technology, engineering and mathematics (STEM) or allied health credit hours.

While the Subcommittee has requested more specific information on the methodology utilized by NCHEMS to arrive at the recommended discipline and instructional tier weights contained in the NSHE's proposal, specific, detailed information has not been provided. Based upon the general information provided, it appears the NCHEMS-recommended weights are based upon the observed relationships in the four states' weighting of disciplines and instructional tiers. The specific methodology used by NCHEMS to translate the observed relationships into the recommended weights has not

been provided. Absent a cost study being conducted in Nevada, it is unclear how close the NSHE's proposed discipline and tier weights represent actual cost.

The Subcommittee has spent considerable time discussing this aspect of the NSHE's proposal, most recently at its July 11, 2012, meeting. At that meeting, the Subcommittee discussed a differential weighting of credit hours across institutional tiers, a common weighting for core versus non-core general education credit hours required for degrees and the weighting of credit hours to promote alignment. The Subcommittee requested that the Chancellor's Office provide additional information related to these issues. That information is provided under Question #1 on pages 1 through 5 and Appendices A and B (pages 9-14) of the NSHE's August 6, 2012, response materials. Finally, the Subcommittee also discussed the possible benefit (transparency, ease of understanding) in not expanding the proposed weighting system and utilizing the performance funding to incentivize policy goals.

The Chancellor's Office has consistently recommended that credit hours only be weighted for cost. According to SRI International, "program level and cost matrices can be a best practice if the policy decision is to fund according to the actual cost of a course. However, care should be taken in how courses are classified and costs calculated." SRI International's testimony on this topic has been supportive of formula simplicity and transparency with policy alignment goals addressed through performance funding.

It appears the Subcommittee has options with regard to the weighting of student credit hours. These are:

- a. Adopt the weighting of student credit hours for "cost" as recommended by the NSHE, which are based upon the "cost-influenced/cost-informed" approach prepared by the National Center for Higher Education Management Systems (NCHEMS).**
- b. Adopt a different weighting approach, such as another state's cost approach. For example, the Subcommittee could adopt the discipline clusters and the weights for each instructional tier utilized by the State of Texas. If the Subcommittee chooses this option, the Subcommittee may wish to consider whether the linkage to another state is to be time limited, such as until such time as a cost study is conducted by the Board of Regents.**
- c. Recommend student credit hours be differentially weighted across institutional tiers and/or by type of course (remedial or for credit towards degree). Weighting courses differentially by institution and/or for type allows the Subcommittee to recognize differences in cost across the institutions for lower division core and non-core courses. Under this recommendation, the Subcommittee could recommend higher weights for remedial instruction courses (at the community colleges and Nevada State College) as well as higher weights for non-core, lower division courses at NSC and the universities. The issue of remedial instruction is more fully discussed under Major Issues #7.**

What recommendation does the Subcommittee wish to make?

4. Small Institution Funding for Administrative Infrastructure Costs

Summary of Issue: As proposed by the NSHE, additional General Fund appropriations are recommended for Great Basin College (GBC) and Western Nevada College (WNC) to address an economy of scale funding issue. The NSHE indicates, “every institution has a base amount of fixed administrative costs that exist regardless of student body size, and small community colleges do not have sufficient student credit hours to cover this overhead cost and provide instruction.” The NSHE proposal provides additional base funding of \$1.5 million to GBC and WNC at ≤50,000 weighted credit hours, which decreases (by approximately \$32.00 per weighted credit hour beginning at 50,001 credit hours) as each institution’s student credit hours increase. At 100,000 weighted student credit hours, institutions would not receive additional funding. General Fund appropriations decrease based upon the expected increase in student-derived revenues resulting from increased credit hours taken.

The existing, but suspended funding formula also provided economies of scale-adjusted funding at GBC and WNC by utilizing enhanced student-to-faculty ratios and different institutional support factors than at CSN and TMCC. Additionally, compared to CSN, TMCC and WNC, different academic support and student support services factors were approved for GBC.

As proposed, the General Fund appropriations supporting this factor are allocated first, thereby reducing the amount of General Fund appropriations otherwise available to be allocated based upon credit hours. As reflected in the NSHE’s original scenario, of the \$362.56 million in FY 2012 General Fund monies appropriated to the seven teaching institutions, \$1.92 million would be allocated first to GBC (\$1.11 million) and WNC (\$810,450) before the balance is distributed based upon credit hours. As was noted by the Fiscal Analysis Division at the Subcommittee’s July 11, 2012, meeting this funding issue is linked to the issue of how credit hours are defined. The more types (“F” grades) of completed credit hours the Subcommittee excludes, a greater amount of General Fund appropriation is allocated by this factor up to the \$1.5 million ceiling.

The information provided by SRI International does not appear to specifically address the use of “factors” or dedicated funding to address economies of scale.

The Subcommittee appears to have a number of options. These are:

- a. Approve the small institution factor for GBC and WNC as proposed by the NSHE.**
- b. Recommend that Nevada State College (NSC) receive funding under the Small Institution Factor, based upon the same sliding scale as GBC and WNC. While not rural, from a weighted student hour standpoint, NSC’s 91,579 credit hours (before adjustment) more closely approximates the projected number of credit hours of GBC (63,041) and WNC (72,985) than it does TMCC (209,107), CSN (638,374), UNR (659,685) or UNLV (934,511).**

- c. Recommend that the Small Institution Factor be utilized for stop-loss purposes during the phase-in period of the new formula and be discontinued after the new formula is implemented.
- d. Approve a “ceiling” amount different from the \$1.5 million proposed by the NSHE and/or a different phase-out rate. If the Subcommittee chooses this option, it will need to recommend a new ceiling amount and phase-out schedule.
- e. Do not approve the Small Institution Factor funding to any institution, but instead recommend that the NSHE System Administration assume financial responsibility for providing some percentage of the fixed administrative expenses at the covered institutions. Moving the costs to System Administration would allow the small institutions to allocate a greater percentage of their formula funding to instructional-related purposes.
- f. Do not approve dedicated General Fund appropriation, allocated first for GBC and/or WNC to support institutional administrative costs. Not approving this formula adjustment would have the effect of increasing the General Fund appropriations available for formula distribution by \$1.92 million to \$3.0 million per year.

What recommendation does the Subcommittee want to make?

5. Funding of Operations and Maintenance Costs

Summary of Issue: The funding of institutions’ costs for the operations and maintenance (O&M) of their physical plants under the NSHE proposal has been discussed extensively by both the full Committee as well as the Subcommittee. Under the NSHE formula proposal, O&M costs are included in the global weighted student credit hour “price” or cost and each institution’s president (subject to approval by the Board of Regents) will determine the amount of funding expended on O&M. This somewhat differs from the existing, but suspended funding formula in that the suspended formula included a specific component (sub-formula) for calculating O&M need at institutions. However, in both cases, it would remain up to the institution’s president to determine the actual expenditure level.

At the Subcommittee’s request, the Chancellor’s Office provided several scenarios in which projected O&M costs were excluded from the student credit hour “price” and funded first, similar to the proposed Small Institution Factor. As presented, these scenarios reduced by \$92.0 million the General Fund appropriations available for distribution among the institutions through the formula. As staff noted previously at the July 11, 2012, Subcommittee meeting, the \$92.0 million figure is not 100 percent General Fund appropriation, but rather the combined, budgeted expenditures from all revenue sources available to each institution. If the Subcommittee were interested in recommending that General Fund appropriations in support of O&M costs were funded first, then the NSHE would need to provide the actual amount or an estimate of General Fund appropriation expended on O&M at each institution.

As the Subcommittee discussed at its July 11, 2012, meeting the NSHE also proposes a “Research O&M” adjustment to provide additional General Fund appropriation to support the personnel and administrative overhead costs associated with research activities at UNLV and UNR. As proposed, the annual adjustment of \$6.80 million (\$3.22 million at UNLV and \$3.58 million at UNR) is allocated off-the top and distributed pre-formula to the two institutions. Although identified as support for O&M, the funding for this adjustment would not support O&M, but rather research personnel and administrative overhead and is discussed more completely under the next policy issue.

SRI International did not identify a specific, national best practice with regard to the formula funding of O&M. However, in its report to the Committee SRI International made the following observation: “The best practice to incentivize efficient use of space is to fund based on educational usage. Building and maintaining structures is not a higher education policy goal.” This appears to be consistent with the NSHE’s proposal.

The Subcommittee has several options with regard to the funding of O&M at the NSHE institutions. These are:

- a. Approve the approach to fund institution’s O&M costs as proposed by the NSHE, that is, include such costs in the global credit hour “price”**
- b. Approve an alternative approach where O&M costs are funded first, before General Fund appropriations are distributed among the institutions. If the Subcommittee chooses this option, it should ask the NSHE to provide each institution’s FY 2012 actual or estimated General Fund appropriation-supported O&M expenditures to serve as a benchmark. Additionally, to be consistent with the “flat” credit hour projection approach, the Subcommittee may wish to recommend that the same base year be used for purposes of determining O&M expenditures.**
- c. Recommend, irrespective of either Options a or b being adopted, that the formula factor for “Research Space O&M” be eliminated. The Research O&M factor is fully discussed in the next policy issue section.**
- d. If the Subcommittee recommends that the “Research Space O&M” be eliminated, the Subcommittee may wish to also recommend that the funding identified for UNR be used for stop-loss purposes during the phase-in period of the new funding formula.**

Does the Subcommittee want to make a recommendation and if so, what recommendation does it want to make?

6. Funding of Research-Related Operating Costs

Summary of Issue: The NSHE proposal includes two adjustments to fund the personnel and administrative costs identified as being associated with the universities’ research missions. However, based upon the information provided, the adjustments neither fund actual research nor research equipment, travel or research space O&M.

The first adjustment is a 10.0 percent research adjustment to upper division undergraduate and graduate level credit hours at UNLV and UNR to provide additional General Fund appropriations in support of the different faculty and administrative overhead costs of research universities. The 10.0 percent adjustment is applied to the universities' credit hours after the credit hours have been weighted for cost. According to the Chancellor's Office, the 10.0 percent research adjustment contributes an additional 57,132 weighted credit hours valued at \$7.57 million for UNLV and 40,199 weighted credit hours valued at \$5.33 million for UNR. The value is based upon the proposed credit hour "price" of \$132.56. Staff would also note that the above credit hour totals and amounts are based upon all grades except "W" being included in the count of weighted credit hours. If the Subcommittee's recommendation under Major Issue #1 were that additional letter grades be excluded, then the value of the 10.0 percent adjustment would likely be decreased. The Chancellor's Office would need to provide revised figures. Under the NSHE proposal, this funding adjustment is not an off-the-top, pre-formula distribution. Rather, this adjustment adds to the count credit hours at UNLV and UNR upon which funds are subsequently distributed.

The Fiscal Analysis Division would note that the information provided on how the 10.0 percent adjustment was determined and its relationship to the actual personnel and administrative overhead costs it is intended to support was neither specific nor detailed. Additionally, if the Subcommittee recommends a cost study be conducted or adopts the cost-study supported weights of another state, it might consider not recommending the 10.0 percent adjustment until it can be determined that there are unfunded research related costs.

As the Subcommittee discussed at its July 11, 2012, meeting the NSHE also proposes a "Research O&M" adjustment to provide additional General Fund appropriation to support the personnel and administrative overhead costs associated with research activities at UNLV and UNR. As proposed, the annual adjustment of \$6.80 million (\$3.22 million at UNLV and \$3.58 million at UNR) is allocated off-the top and distributed pre-formula to the two institutions. Based upon testimony provided by the Chancellor's Office at the July 11, 2012, meeting the O&M costs for non-instructional research space are already included in the overall funding of O&M. The \$6.80 million is a calculated value of the state-supported, non-instructional research square footage multiplied by a cost per square foot.

The existing, but suspended, funding formula does not specifically fund research-related operating costs. Instead, the administrative overhead costs of the institutions' research activities were understood to be funded through a combination of the General Fund monies appropriated and the allowable indirect cost recoveries charged to each grant. The 2005 Legislature approved a change in budget policy (effective FY 2008) that allowed the institutions to retain 100 percent of the indirect/administrative cost recovery collected without a corresponding reduction in budgeted General Fund appropriations. Previously, a percentage of these revenues was budgeted in the state-supported operating budgets and offset General Fund appropriations in the budgeting process. Because these revenues are now budgeted outside of the state supported operating budgets, it is unclear the amount of indirect cost recovery funding each institution generates annually.

Staff would note that the NSHE does receive General Fund appropriations dedicated to providing matching funds to research grants through the Special Projects budget account. General Fund appropriations in the amount of \$1.95 million were approved by the 2011 Legislature for each fiscal year of the 2011-13 biennium.

According to SRI International, eight states (Alabama, Arkansas, Florida, Georgia, Massachusetts, Minnesota, South Carolina and Texas) include a research factor in their funding formulas. While there does not appear to be national best practice upon which the Subcommittee can draw, in its report, SRI International noted that a new funding formula should focus wholly on instruction and not include funding for research. While state funding support for research was indeed appropriate and critical, such funding should occur outside of the funding formula and through a parallel mechanism such as the Knowledge Fund (Assembly Bill 449 of the 2011 Legislature).

In considering the funding of research-related operating costs as part of a funding formula, the Subcommittee may wish to consider options that include:

- a. Adopt both the 10.0 percent credit hour weighting factor and the “off-the-top” research O&M factor as recommended by the NSHE.**
- b. Adopt the 10.0 percent credit hour weighting factor, but not the “off-the-top” O&M factor. Alternatively, the Subcommittee could recommend the latter and not the former.**
- c. If the Subcommittee chooses to recommend the credit hour weighting factor, it may wish to recommend a percentage other than the 10.0 percent proposed by the NSHE. The Subcommittee could also adjust the type of credit hours eligible for the research factor by limiting the factor to graduate level courses. Depending upon the definition of completed credit hour (certain letter grades excluded in whole or part) recommended by the Subcommittee, as well as the type of credit hours included, the value of the 10.0 percent factor may differ from the \$12.90 million proposed by the NSHE. The Subcommittee will want the NSHE to recalculate the revised value based upon the Subcommittee’s recommendation.**
- d. Do not recommend General Fund appropriation adjustments to the funding formula for research-related operating costs.**

What recommendation does the Subcommittee wish to make?

7. Funding of Remedial Instruction

Summary of Issue: The Committee as well as the Subcommittee expressed an interest in whether remedial instruction costs should be included in the funding formula. While the existing but suspended funding formula did not specifically fund remedial education, credit hours associated with remedial instruction were not specifically excluded and were, therefore, funded with General Fund appropriations. However, by budget policy, the 2005 Legislature approved the NSHE’s plan to make remedial instruction at UNLV and UNR self-funded effective FY 2007. As a result, beginning in FY 2007, remedial instruction credit hours were not included in the count of full-time student equivalents

(SFTE) at the two universities but continued to be included in the count of SFTE at NSC and the community colleges.

The NSHE's proposal does not provide additional weighting or a funding factor for remedial instruction. According to the Chancellor's Office, remedial instruction credit hours receive the base 1.0 weighting. Consistent with the aforementioned budget policy, remedial instruction credit hours are only counted at NSC and the community colleges.

According to SRI International, the states of Alabama, Illinois and North Carolina specifically address funding remedial education in their respective funding formulas. SRI International's recommendation is that the funding of remedial instruction should be continued at NSC and the community colleges and the success of remedial instruction is of such criticality to Nevada that extra weight should be given for both remedial classes (credit hours) and hands-on counseling.

In considering the funding of remedial instruction operating costs as part of a funding formula, the Subcommittee may wish to consider options including:

- a. **Adopt the weighting and funding of remedial instruction credit hours as recommended by the NSHE.**
- b. **Add a credit hour weighting factor applied to remedial instruction at NSC and the community colleges. If the Subcommittee chooses this option, it will need to recommend a weighting factor. The Subcommittee will want the NSHE to calculate the funding changes based upon the Subcommittee's recommended weighting.**

Does the Subcommittee wish to make a recommendation regarding formula funding of remedial instruction?

8. Inclusion/Exclusion of the Medical, Law and Dental Schools in Funding Formula

Summary of Issue: The state supported operating budgets of the University of Nevada School of Medicine (Medical School), University of Nevada, Las Vegas, School of Law (Law School) and University of Nevada, School of Dental Medicine (Dental School) have been excluded from the funding formula. The budgets have been funded through the traditional Base-Maintenance-Enhancement budget process and are considered "non-formula". Consistent with the prior formula, the NSHE's funding formula proposal also does not include the three schools.

While the discussions of the Committee and Funding Formula Subcommittee have included mention of the Medical, Law and Dental Schools, the discussions have not been substantive. For purposes of establishing a formal recommendation as to the continued funding of the three professional schools, the Fiscal Analysis Division recommends the Subcommittee adopt a recommendation addressing the schools' funding.

Does the Subcommittee want to recommend that the Medical School, Law School and Dental School be excluded from the funding formula with annual General Fund appropriations calculated through the Base-Maintenance-Enhancement budget methodology?

9. Inclusion/Exclusion of the Desert Research Institute in Funding Formula

Summary of Issue: The state supported operating budget of the Desert Research Institute (DRI) has traditionally been funded through the Base-Maintenance-Enhancement budget process with the exception of O&M costs that have been calculated and funded through the formula. Otherwise, DRI's state supported operating budget has been considered "non-formula." As originally recommended in the NSHE's funding formula proposal DRI was provisionally excluded, subject to further review.

On August 6, 2012, the Chancellor's Office provided the Fiscal Analysis Division with a revised formula-based proposal for the DRI. Staff's understanding is that it is now proposed that future General Fund appropriations for DRI be calculated by a formula tied to levels of non-General Fund supported research expenditures rather than the Base-Maintenance-Enhancement approach. Staff also understands that the intent of the formula approach is to provide DRI with an "automatic growth" mechanism analogous to completed credit hours at the teaching institutions. When completed credit hours increase at a teaching institution, under the formula, additional General Fund appropriations would be budgeted, subject to appropriation by the Legislature. As proposed for DRI, as funded grant expenditures increase, the formula would calculate greater General Fund appropriation support. Staff would point out that the traditional Base-Maintenance-Enhancement approach also provides a "growth" mechanism for DRI.

Currently, all of DRI's grant supported research revenues and expenditures are budgeted outside of the state supported operating budget. Additionally, all indirect cost recovery revenues and expenditures are also budgeted outside of DRI's state supported operating budget.

As with the formula proposal for the seven teaching institutions, the Chancellor's Office is proposing that this formula will initially be General Fund appropriation neutral. A copy of the DRI formula proposal is included in the Subcommittee meeting materials.

There are a number of aspects of the proposed formula approach that require clarification. These include: 1) the total level of grant supported research expenditures; 2) the amount of indirect cost recovery currently collected; 3) the DRI operating costs funded by those revenues; 4) the type of expenditures the additional General Fund appropriations would fund; and 5) whether this proposal is more appropriately considered for performance funding rather than being the basis for DRI's "base" funding.

The Subcommittee has several options with regard to including or excluding DRI in a funding formula. These include:

- a. Recommend that funding for DRI's state supported operating budget continue to be calculated through the Base-Maintenance-Enhancement budget building approach.**
- b. Provisionally adopt the new formula proposed by the Chancellor's Office subject to further clarification being provided.**

- c. Provisionally adopt the new formula proposal but cap or limit funding to not exceed the 6.70 percent of non-formula General Fund appropriation that DRI's \$7.42 million represents in the current biennium.
- d. Recommend that the proposal be considered as part of any performance funding approach approved by the Performance Pool, Economic and Work Force Development, and Research Subcommittee as well as the full Committee.

10. New Formula Implementation (Multi-Year Phase-In vs. Single Year)

Summary of Issue: The final issue the Subcommittee should address is the implementation process and time period in which a new funding formula is implemented for the NSHE teaching institutions. The NSHE recommends that "the Committee recommend that the Board of Regents approve, and recommend to the Governor and Legislature, a two-biennia implementation plan whereby the negative impacts on NSHE institutions are mitigated and/or phased in." When the existing funding formula was adopted and implemented by the 2001 Legislature, a two-biennia implementation period was adopted along with provisions for "holding harmless" institution's appropriation levels. SRI International's report does not appear to offer a recommendation on this topic.

Options available to the Subcommittee include:

- a. Adopt the NSHE's recommendation that the decision on how to implement a new funding formula be made by the 2013 Legislature based upon the input of the Board of Regents and the Office of the Governor during the biennial budget process.
- b. Recommend the implementation of a new funding formula over a multi-year period, such as the two biennia (4-year) period suggested by the NSHE. If the Subcommittee adopts this option, the Subcommittee may wish to include a "stop-loss" provision such as clarifying that the change in institution's formula calculated General Fund appropriations, exclusive of performance funding, shall not decrease more than a maximum percentage per year. If a 4-year approach is recommended, that suggests a maximum change limit of 25.0 percent in the first year and plus (+) 25.0 percent in each succeeding year until 100 percent is reached in Year 4.

Based upon the Subcommittee's actions, staff will prepare a report containing the recommendations for the full Committee's consideration at the final meeting on Wednesday, August 29, 2012.

NEVADA SYSTEM OF HIGHER EDUCATION



Responses to LCB July 20, 2012 Funding Formula Questions

NSHE's August 6, 2012, Response to the Funding Formula Subcommittee's July 11, 2012, Meeting Questions

NEVADA SYSTEM OF HIGHER EDUCATION

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Document Prepared by the Finance Department
Office of the Chancellor

Nevada System of Higher Education responses to Legislative Counsel Bureau request for information dated July 20, 2012.

QUESTION 1

Weighting of Student Credit Hours: The Subcommittee examined four policy questions related to the Nevada System of Higher Education's (NSHE) proposal and the weighting of student credit hours, outside of cost, reflected in Appendix A - Discipline Clusters and Weights. The policy questions were:

- a. Should different weights be applied to credit hours completed at the three institutional tiers.***

No, based on the recommendation of NCHEMS, the Discipline Clusters and Weights reflect cost regardless of the institution type (e.g. university, state college or community college). There is no data available to suggest that similar courses delivered at different institutions should be weighted differently. To the contrary, cost studies completed in other states indicate that similar courses generally cost the same regardless of the institution where they are delivered. In addition, it is important to remember that in retaining registration fees (which differ by institution level), there is recognition that total funds available for instruction will vary by institutional tier. In other words, the community colleges will retain a registration fee of \$75.50 per credit, the state college will retain \$123.50 per credit, and the universities will retain \$171.00 per credit (based on approved registration fees for Fall 2012) in addition to the uniform state support of \$132.56 per WSCH (From schedule C of NSHE's original proposal).

- b. Should the credit hours associated with common core (general education) courses be weighted the same, regardless of the institutional tier at which they are taught.***

Yes, again as based on the recommendation of NCHEMS, the Discipline Clusters and Weights reflect the cost of instructional delivery that is consistent across institutions and dependent on the discipline. The response to part a. should be considered here as the same comments apply. The Discipline Clusters and Weights account for mission differentiation by providing higher weighting for upper division and graduate level coursework. Further, the assigned weights reflect increased costs dependent on the discipline (e.g. the weight science for courses is higher than liberal arts courses).

Through the performance pool the institutions may receive additional funding for certain gateway course completions. We believe it is more appropriate to provide for additional funding for gateway courses inside of the performance pool rather than through additional increased weights in the discipline matrix.

- c. Should credit hours be weighted differently for the non-common core, lower division classes than for upper division courses to take into the account the differing missions of the institutions.***

No. The Discipline Clusters and Weights matrix currently accounts for differences between lower and upper division courses evident in the fact that all weights in all the clusters are higher for upper division than lower division as they are costlier to teach, this however, is irrespective of whether or not the course is part of a common core or not.

- d. Should course credit hours be additionally weighted in reflection of state economic goals and work force development strategies.***

No. The funding model proposed by NSHE consists of two components: the base funding formula and a performance pool. The base formula is designed to measure course completions (not course enrollments) and further accounts for the cost of course delivery through the use of a discipline matrix that assigns weights based on cost data from other states. The performance pool is designed to incentivize certain behavior at the institutions (primarily graduating more students) by providing funding based on institutional performance in defined outcomes – all in accordance with the goals and needs of the State. As such, the weighting for the economic and workforce goals of the state are appropriately dealt with in the performance pool component of the proposed formula. In line with the expressed opinions of the Committee in this regard, these precise goals have been incorporated into the defined performance pool outcomes.

To assist in its decision making, the Subcommittee requested that the data shown in the table entitled “NSHE Course Taxonomy, Student Credit Hour Distribution X Discipline Weights” (Page 19 of the July 3, 2012, response materials) be broken down to show the credit hours by CIP (Classification of Instructional Programs) codes versus the discipline clusters with the credit hour data also shown cumulatively by institutional tier.

See Appendix A that includes a breakdown of SCH and weighted SCH by CIP code rather than discipline cluster across institutional tiers.

In addition, the Subcommittee requested a list of the general education courses that all students are required to take towards completion of a four-year degree irrespective of the actual major or degree they are pursuing. If a similar list of general education courses exists for students pursuing two-year degrees, please provide that list as well.

Board of Regents policy defines the general education courses that must be taken by all students pursuing a transferable associate’s degree or a bachelor’s degree (*Title 4, Chapter 14, Section 19*) as follows:

1. Associate of arts, associate of science, associate of business, and baccalaureate graduates must complete a minimum program of general education requirements defined as follows:

<i>General Education Courses</i>	<i>Credits</i>	
<i>English</i>	<i>3-6</i>	<i>Freshman level English Composition including English 102</i>
<i>Mathematics</i>	<i>3</i>	<i>Three credits of lower division coursework</i>
<i>Natural Science</i>	<i>6</i>	<i>Six credits of lower division coursework to include at least one laboratory experience</i>
<i>Social Sciences or Humanities/Fine Arts</i>	<i>9</i>	<i>Nine credits of lower division coursework in either the social sciences or humanities/fine arts</i>
<i>TOTAL</i>	<i>21-24</i>	

2. Instruction must be given in the essentials of the Constitution of the United States and the Constitution of the State of Nevada, including the origin and history of the Constitutions and the study of and devotion to American institutions and ideals pursuant to Nevada Revised Statutes 396.500 for all associate and baccalaureate degrees. If clearly identified, this content may be included in coursework defined in subsection 1. Institutional course catalogs must identify courses that meet this requirement.

The specific courses that may be taken to meet the general education requirements varies by institution, by degree program, and by student selection.

Additionally, the Subcommittee requested that the Chancellor's Office provide a summary document providing a brief description of the course (subject) areas, by CIP code, reflected in Trades/Tech and Sciences discipline clusters. To the extent possible, please show how the courses or discipline clusters align to the state's economic development and work force development goals.

See [Appendix B](#) that includes the course prefixes for the CIP codes included under the Sciences and Trades/Tech discipline clusters – with a general course description. It can generally be said that many of the courses that fall under the Sciences and Trade/Tech discipline clusters are included in degree programs that support the clean energy; aerospace and defense; mining, materials and manufacturing; and the logistics and operations sectors identified in the state's economic development plan. It is difficult to align individual courses to the state's economic development and workforce development goals. The performance pool addresses the state's economic development goals through its defined outcomes for STEM and allied health.

Finally, please provide a matrix, which demonstrates the varying costs per credit hour by institutional tier, and show the non-state revenues available to offset the institutions' costs in providing the course credit hours.

The following table includes the price per WSCH and registration fee (non-state revenue) by institution type.

	Community Colleges	State College	Universities
<u>Proposed State Funding</u> \$ per WSCH (Schedule C – NSHE original proposal)	\$132.56	\$132.56	\$132.56
<u>Undergraduate</u> Board Approved per credit registration fee (eff. Fall 2013)	\$84.50	\$138.25	\$191.50
<u>Upper-Division</u> Board Approved per credit registration fee* (eff. Fall 2013)	\$138.25	n/a	n/a
<u>Graduate</u> Board Approved per credit registration fee (eff. Fall 2013)	n/a	n/a	\$264.00

*Applicable to CSN, GBC and WNC only for select baccalaureate degree programs

In addition to the base registration fee, the following differential program fees are non-state revenues available to support specific academic programs as designated.

Program	Course Prefix	Course Level	Amount	Effective Date
University of Nevada, Las Vegas				
Architecture	AAD, AAE, ABS, AAL, LAND, AAI, AAP	300-400	\$156.75/credit	Spring 2012
Architecture	AAE, AAD	500-700	\$239.50/credit	Spring 2012
Business	MBA, FIN, MKT, MGT	500-700	\$100/credit	Spring 2012
Nursing	NURS	300-400	\$156.75/credit	Spring 2012
Nursing	NURS	500-700	\$239.50/credit	Spring 2012
Physical Therapy	DPT	500-700	\$239.50/credit	Spring 2012
Social Work	SW	700	\$125/credit	Fall 2012
Urban Leadership	UBL	700	\$150/credit	Fall 2012
University of Nevada, Reno				
Business	ACC, BADM, BUS, ENT, GAM, FIN, IS, MGT, MKT	600-700	\$100/credit	Fall 2011
Engineering	BME, ENGR, CHE, CEE, CPE, CS, EE, GE, ME, MINE, MSE	300-400	\$21.25/credit	Fall 2011*
Engineering	BME, ENGR, CHE, CEE, CPE, CS, EE, GE, ME, MINE, MSE	300-400	\$42.50/credit	Fall 2012*
Engineering	BME, ENGR, CHE, CEE, CPE, CS, EE, GE, ME, MINE, MSE	300-400	\$85.00/credit	Fall 2013*

Program	Course Prefix	Course Level	Amount	Effective Date
Engineering	BME, ENGR, CHE, CEE, CPE, CS, EE, GE, ME, MINE, MSE	600-700	\$25.00/credit	Fall 2011*
Engineering	BME, ENGR, CHE, CEE, CPE, CS, EE, GE, ME, MINE, MSE	600-700	\$50.00/credit	Fall 2012*
Engineering	BME, ENGR, CHE, CEE, CPE, CS, EE, GE, ME, MINE, MSE	600-700	\$100.00/credit	Fall 2013*
Nevada State College				
Nursing – Accelerated Track Only	NURS	300-400	\$113.25/credit	Fall 2012

*Phase in of per credit fee over three years.

QUESTION 2

Research Factor for Upper Division and Graduate Level Credit Hours: *In the NSHE's April 16, 2012, response to questions asked by the Fiscal Analysis Division and Committee members regarding the proposed alternative funding model, the system provided clarification on the approach utilized by the National Center for Higher Education Management Systems (NCHEMS) in recommending the development of the weighted student credit hour matrix. The NSHE's response (Question #1), indicates that NCHEMS utilized the cost studies conducted by Florida, Illinois, Ohio and Texas as the basis for creating a cost-informed weighting approach for Nevada, "with the basic architecture drawn more from the Texas model than other states in that it is based upon clusters of disciplines of generally similar natures rather than treating each discipline separately." However, the April 16, 2012, response does not mention the use of additive factors for purposes of funding costs not directly tied to instructional credit hours. The Subcommittee requested that the Chancellor's Office contact NCHEMS to request NCHEMS' opinion on the use of additive factors, such as the 10.0 percent research factor to provide additional funding to address the research-associated faculty and administrative overhead costs at UNLV and UNR.*

In response to this question, NSHE Staff contacted Mr. Dennis Jones of NCHEMS for comment on this question. He provided the following comments:

"This approach is not common, but it is not unheard of either. Several states have addressed this issue in a generally similar way, mostly states in the south. Alabama has used a percentage increase on top of the instructional allocation to cover research costs. As examples, Texas and Arkansas build a percentage increase onto the faculty salary components of their formulas for research—and because the research universities have higher faculty salary costs, most of the research money goes to them. The practice was

probably more prevalent in the period before economic times got as tough as they are now and several states moved to a base-plus (or really minus) funding approach.

On a policy level, there is really no “right” answer to how to do this. My sense is that the 10% override that Nevada has in its proposed model, coupled with a performance funding component and potential funding from the Knowledge fund or similar avenue provides a very reasonable approach. It recognizes the increased costs borne by the research universities, it rewards institutions for acquiring additional funds from federal and other sources, and it provides a vehicle for direct state investment in areas of priority interest to the state. This covers all the relevant bases. At the end of the day, this is a state policy decision, not a decision for which there is a technical solution.”

QUESTION 3

Segregation of Operations and Maintenance Costs in the Calculation of Weighted Student Credit Hour Unit Value and Resulting Allocations: *The Subcommittee reviewed the schedules (A, B, C and D) provided in the NSHE’s July 3, 20102, response to understand how the treatment of operations and maintenance (O&M) costs changes the allocation of General Fund appropriations to institutions. The Subcommittee also discussed the O&M Research Factor proposed in the Alternative Funding Proposal. The Subcommittee requested that a revised schedule be prepared and provided based upon the following parameters: O&M costs included in the weighted student credit hour cost, the O&M Research Factor funding removed, all grades included except Withdrawals. Based upon the schedules provided, it appears that this would be schedule C, modified to remove the \$6.8 million Research Factor.*

Additionally, the Subcommittee indicated that if the NSHE had a recommendation(s) on an approach to help mitigate the impact that the O&M Research Factor was intended to address, the Subcommittee would be interested in seeing that recommendation(s).

See Appendix C.

The recommended model includes the costs associated with facility O&M (for those facilities related to instruction) within the aggregate amount of the WSCH based on the premise that facilities at the teaching institutions create capacity for instruction that will in turn result in WSCH. Certain facilities at the two research institutions dedicated solely and properly to research activity do not meet this fundamental test as they do not generate WSCH and do not provide student teaching capacity. For that reason it is suggested that, for these research facilities only, the cost of O&M be treated as a line item budget within the respective university rather than within the formula calculation. This is not the research factor, but rather an appropriate recognition of facility costs not otherwise covered by the funding model.

QUESTION 4

Inclusion of “F” Grades: *The Subcommittee discussed the issue of including “F” grades in the count of weighted student credit hours and expressed an interest in knowing the number of weighted credit hours for “F” grades issued for non-attendance (and those instances in which the students did not otherwise do the course work) versus those instances where the student attended, completed assignments, etc. yet still failed to pass the course.*

For FY 2012, for each institution, please provide a count of the weighted student credit hours for which “F” grades were issued and segregate those credit hours by the aforementioned type of “F” grade.

In December 2011 the Board of Regents adopted a permissive policy allowing institutions to utilize an FN grade to denote an F grade for non-attendance. At this time the policy has not been widely implemented by NSHE institutions. For the purpose of the Committee’s request, we used the date of last attendance to discern those F grades that were issued for non-attendance in accordance with Title IV student financial aid regulations. Specifically, Title IV requires that institutions to return federal financial aid dollars when a student stops attending the institutions at or before 60 percent of the course instruction is complete.

This method of using the date of last attendance to identify F grades for non-attendance is not entirely precise, because the date of last attendance is not recorded for all F grades by all institutions. The following table indicates the percent of F grades for which a date of last attendance was available:

	Percent SCH with F grades for which the date of last attendance was available (Fall 2011)
UNR	7.2% *
UNLV	98.9%
NSC	100%
CSN	98.3%
GBC	100%
TMCC	85.7%
WNC	98.1%

*At this time, UNR collects only date of last attendance for financial aid recipients who have failed to pass all classes, therefore the majority of their F grades did not have a date of last attendance on record. Should the Committee recommend that F grades for non-attendance be excluded from the SCH for the purpose of the funding formula, NSHE will adopt procedures requiring all institutions to record a date of last attendance for F grades in a manner consistent across the System.

See Appendix D for the breakdown of F grades for non-attendance.

Additionally, please re-run the scenario requested above under #3 but adjusted by removing those weighted student credit hours tied to “F” grades for non-attendance/non-effort.

See Appendix E.

NSHE Course Taxonomy
Student Credit Hour Distribution

Support Levels	Universities					Community Colleges			State College		
	Lower Division	Upper Division	Masters	Doctoral	Total	Lower Division	Upper Division	Total	Lower Division	Upper Division	Total
Summer 2011											
26	608	0	0	0	608	436	0	436	876		876
30	39	0	0	0	39	24	0	24	153		153
40	576	0	0	0	576	0	0	0	456		456
51	57	3,338	0	0	3,395	779	0	779	200	1,025	1,225
W (NV)	80	20	0	0	100	80	0	80	75	39	114
Blank Grade	4	0	0	0		0	0				
Non-Residents	272	658	0	0	930	148	0	148	327	68	395
Sum	1,636	4,016	0	0	5,652	1,466	0	1,466	2,087	1,132	3,219
Fall 2011											
01	168	306	15	2	491	434	30	464			0
03	1,425	1,250	217	101	2,993	3749.5	0	3,750	123	34	157
04	1,086	891	314	0	2,291	816	0	816			0
05	3,474	489	33	18	4,014	1911	0	1,911	216		216
09	6,212	4,194	482	6	10,894	12498	0	12,498	495	78	573
11	2,163	1,676	794	192	4,825	5950	2	5,952		24	24
12	901	1,764	0	0	2,665	4099	0	4,099			0
13	3,500	10,410	9,096	1,557	24,563	6832	513	7,345	1,308	2,177	3,485
14	5,089	8,743	1,421	970	16,223	869	95	964	2		2
15	0	0	0	0	0	3807	161	3,968			0
16	11,891	3,294	190	15	15,390	12317	6	12,323	176		176
19	1,139	880	90	35	2,144	1856	0	1,856			0
22	0	0	0	0	0	1675	0	1,675			0
23	20,390	6,096	640	443	27,569	40374	219	40,593	1,376	306	1,682
24	5,756	0	0	0	5,756	6685	0	6,685	678		678
25	0	0	0	0	0	21	0	21			0
26	12,673	8,517	380	750	22,320	16349	50	16,399	3,196	246	3,442
27	19,011	2,328	508	195	22,042	32738	99	32,837	2,320	87	2,407
28	0	0	0	0	0	22	0	22			0
29	227	165	0	0	392	25	0	25	4		4
30	5,151	2,430	38	9	7,628	1722.5	360		240	78	318
31	820	582	33	0	1,435	3213	0	3,213			0
32	131	0	0	0	131	4035	0	4,035			0
38	5,301	1,173	90	3	6,567	9477	57	9,534	81		81
40	18,066	4,406	927	1,153	24,552	12369	0	12,369	1,662	117	1,779
42	7,031	10,354	991	1,830	20,206	21896	134	22,030	1,272	1,634	2,906
43	3,642	4,228	281	43	8,194	11754	0	11,754		84	84
44	795	2,738	2,687	198	6,418	57	75				0
45	23,738	10,696	1,083	1,121	36,638	36274	152	36,426	1,091	426	1,517
46	0	273	30	0	303	10571.5	40	10,612			0
47	0	0	0	0	0	7532	0	7,532			0
48	0	0	0	0	0	4056	0	4,056			0
49	0	0	0	0	0	608	0	608			0
50	18,647	7,144	1,405	283	27,479	27209	4	27,213	636		636
51	7,083	12,849	4,384	1,272	25,588	21069	316	21,385	260	3,775	4,035
52	7,915	24,366	4,593	146	37,020	29253	336	29,589	309	957	1,266
54	5,519	2,478	475	205	8,677	12276	30	12,306	507	261	768
W (NV)	13,661	5,546	919	161	20,287	59,509	226	59,735	1,424	528	1,952
NR or Blank Grade (NV)	462	293	139	60	954	337	0	337	238	6	244
Non-Residents	52,394	28,020	3,436	955	84,805	31,864	232	32,096	777	429	1,206
Sum	265,461	168,579	35,691	11,723	481,454	458,108	3,137	461,245	18,391	11,247	29,638

NSHE Course Taxonomy
Student Credit Hour Distribution

Support Levels	Universities					Community Colleges			State College		
	Lower Division	Upper Division	Masters	Doctoral	Total	Lower Division	Upper Division	Total	Lower Division	Upper Division	Total
Spring 2012 (Same as Fall)											
01	168	306	15	2	491	434	30	464			0
03	1,425	1,250	217	101	2,993	3749.5	0	3,750	123	34	157
04	1,086	891	314	0	2,291	816	0	816			0
05	3,474	489	33	18	4,014	1911	0	1,911	216		216
09	6,212	4,194	482	6	10,894	12498	0	12,498	495	78	573
11	2,163	1,676	794	192	4,825	5950	2	5,952		24	24
12	901	1,764	0	0	2,665	4099	0	4,099			0
13	3,500	10,410	9,096	1,557	24,563	6832	513	7,345	1,308	2,177	3,485
14	5,089	8,743	1,421	970	16,223	869	95	964	2		2
15	0	0	0	0	0	3807	161	3,968			0
16	11,891	3,294	190	15	15,390	12317	6	12,323	176		176
19	1,139	880	90	35	2,144	1856	0	1,856			0
22	0	0	0	0	0	1675	0	1,675			0
23	20,390	6,096	640	443	27,569	40374	219	40,593	1,376	306	1,682
24	5,756	0	0	0	5,756	6685	0	6,685	678		678
25	0	0	0	0	0	21	0	21			0
26	12,673	8,517	380	750	22,320	16349	50	16,399	3,196	246	3,442
27	19,011	2,328	508	195	22,042	32738	99	32,837	2,320	87	2,407
28	0	0	0	0	0	22	0	22			0
29	227	165	0	0	392	25	0	25	4		4
30	5,151	2,430	38	9	7,628	1722.5	360		240	78	318
31	820	582	33	0	1,435	3213	0	3,213			0
32	131	0	0	0	131	4035	0	4,035			0
38	5,301	1,173	90	3	6,567	9477	57	9,534	81		81
40	18,066	4,406	927	1,153	24,552	12369	0	12,369	1,662	117	1,779
42	7,031	10,354	991	1,830	20,206	21896	134	22,030	1,272	1,634	2,906
43	3,642	4,228	281	43	8,194	11754	0	11,754		84	84
44	795	2,738	2,687	198	6,418	57	75				0
45	23,738	10,696	1,083	1,121	36,638	36274	152	36,426	1,091	426	1,517
46	0	273	30	0	303	10571.5	40	10,612			0
47	0	0	0	0	0	7532	0	7,532			0
48	0	0	0	0	0	4056	0	4,056			0
49	0	0	0	0	0	608	0	608			0
50	18,647	7,144	1,405	283	27,479	27209	4	27,213	636		636
51	7,083	12,849	4,384	1,272	25,588	21069	316	21,385	260	3,775	4,035
52	7,915	24,366	4,593	146	37,020	29253	336	29,589	309	957	1,266
54	5,519	2,478	475	205	8,677	12276	30	12,306	507	261	768
W (NV)	13,661	5,546	919	161	20,287	59,509	226	59,735	1,424	528	1,952
NR or Blank Grade (NV)	462	293	139	60		337	0		238	6	244
Non-Residents	52,394	28,020	3,436	955	84,805	31,864	232	32,096	777	429	1,206
Sum	265,461	168,579	35,691	11,723	481,454	458,108	3,137	461,245	18,391	11,247	29,638
2011-12											
Completed	399,168	272,778	62,394	21,094	755,434	734,038	5,358	734,967	33,589	21,593	55,182
Not Completed (NV)	28,330	11,698	2,116	442	41,628	119,770	452	119,885	3,399	1,107	4,506
Non-Residents	105,060	56,698	6,872	1,910	170,540	63,875	464	64,339	1,881	926	2,807
Total	532,558	341,174	71,382	23,446	968,560	917,682	6,274	923,956	38,869	23,626	62,495

Remedial credit hours are excluded from university totals.

Summer school totals reflect nursing and science-based prerequisites only.

Completed includes grades of "A" through "F", Pass (P), Audit (AU or AD), Incomplete (I), Unsatisfactory (U), and X which is used for courses not completed in one term such as dissertation where the grades is assigned upon completion. Grades under appeal also included.

Non-resident line items include Children of Alumni, Good Neighbor, Non-resident/out-of state, and WICHE/WUE.

NSHE Course Taxonomy
Student Credit Hours x Weights

Support Levels	Universities					Community Colleges			State College		
	Lower Division	Upper Division	Masters	Doctoral	Total	Lower Division	Upper Division	Total	Lower Division	Upper Division	Total
Summer 2011											
26	1,216	0	0	0	1,216	872	0	872	1,752	0	1,752
30	39	0	0	0	39	24	0	24	153	0	153
40	1,152	0	0	0	1,152	0	0	0	912	0	912
51	114	6,676	0	0	6,790	1,557	0	1,557	400	2,050	2,450
Sum	2,521	6,676	0	0	9,197	2,453	0	2,453	3,217	2,050	5,267
Fall 2011											
01	336	918	75	16	1,345	868	90	958	0	0	0
03	2,850	3,750	1,085	808	8,493	7,499	0	7,499	246	102	348
04	2,172	2,673	1,570	0	6,415	1,632	0	1,632	0	0	0
05	3,474	978	132	90	4,674	1,911	0	1,911	216	0	216
09	6,212	8,388	1,928	30	16,558	12,498	0	12,498	495	156	651
11	4,326	5,028	3,970	1,536	14,860	11,900	6	11,906	0	72	72
12	1,352	3,528	0	0	4,880	6,149	0	6,149	0	0	0
13	5,250	20,820	22,740	7,785	56,595	10,248	1,026	11,274	1,962	4,354	6,316
14	10,178	26,229	7,105	7,760	51,272	1,738	285	2,023	4	0	4
15	0	0	0	0	0	7,614	483	8,097	0	0	0
16	11,891	6,588	760	75	19,314	12,317	12	12,329	176	0	176
19	1,139	1,760	360	175	3,434	1,856	0	1,856	0	0	0
22	0	0	0	0	0	3,350	0	3,350	0	0	0
23	20,390	12,192	2,560	2,215	37,357	40,374	438	40,812	1,376	612	1,988
24	5,756	0	0	0	5,756	6,685	0	6,685	678	0	678
25	0	0	0	0	0	21	0	21	0	0	0
26	25,346	25,551	1,900	6,000	58,797	32,698	150	32,848	6,392	738	7,130
27	19,011	4,656	2,032	975	26,674	32,738	198	32,936	2,320	174	2,494
28	0	0	0	0	0	22	0	22	0	0	0
29	227	330	0	0	557	25	0	25	4	0	4
30	5,151	4,860	152	45	10,208	1,723	720	2,443	240	156	396
31	1,230	1,164	99	0	2,493	4,820	0	4,820	0	0	0
32	197	0	0	0	197	6,053	0	6,053	0	0	0
38	5,301	2,346	360	15	8,022	9,477	114	9,591	81	0	81
40	36,132	13,218	4,635	9,224	63,209	24,738	0	24,738	3,324	351	3,675
42	7,031	20,708	3,964	9,150	40,853	21,896	268	22,164	1,272	3,268	4,540
43	5,463	8,456	843	172	14,934	17,631	0	17,631	0	168	168
44	795	5,476	10,748	1,188	18,207	57	150	207	0	0	0
45	23,738	21,392	4,332	5,605	55,067	36,274	304	36,578	1,091	852	1,943
46	0	683	0	0	683	21,143	100	21,243	0	0	0
47	0	0	0	0	0	15,064	0	15,064	0	0	0
48	0	0	0	0	0	8,112	0	8,112	0	0	0
49	0	0	0	0	0	1,216	0	1,216	0	0	0
50	27,971	17,860	7,025	1,415	54,271	40,814	10	40,824	954	0	954
51	14,166	25,698	21,920	7,632	69,416	42,138	632	42,770	520	7,550	8,070
52	7,915	48,732	18,372	876	75,895	29,253	672	29,925	309	1,914	2,223
54	5,519	4,956	1,900	1,025	13,400	12,276	60	12,336	507	522	1,029
Sum	260,518	298,938	120,567	63,812	743,834	484,826	5,718	490,544	22,167	20,989	43,156

NSHE Course Taxonomy
Student Credit Hours x Weights

Support Levels	Universities					Community Colleges			State College		
	Lower Division	Upper Division	Masters	Doctoral	Total	Lower Division	Upper Division	Total	Lower Division	Upper Division	Total
Spring 2012 (Same as Fall)											
01	336	918	75	16	1,345	868	90	958	0	0	0
03	2,850	3,750	1,085	808	8,493	7,499	0	7,499	246	102	348
04	2,172	2,673	1,570	0	6,415	1,632	0	1,632	0	0	0
05	3,474	978	132	90	4,674	1,911	0	1,911	216	0	216
09	6,212	8,388	1,928	30	16,558	12,498	0	12,498	495	156	651
11	4,326	5,028	3,970	1,536	14,860	11,900	6	11,906	0	72	72
12	1,352	3,528	0	0	4,880	6,149	0	6,149	0	0	0
13	5,250	20,820	22,740	7,785	56,595	10,248	1,026	11,274	1,962	4,354	6,316
14	10,178	26,229	7,105	7,760	51,272	1,738	285	2,023	4	0	4
15	0	0	0	0	0	7,614	483	8,097	0	0	0
16	11,891	6,588	760	75	19,314	12,317	12	12,329	176	0	176
19	1,139	1,760	360	175	3,434	1,856	0	1,856	0	0	0
22	0	0	0	0	0	3,350	0	3,350	0	0	0
23	20,390	12,192	2,560	2,215	37,357	40,374	438	40,812	1,376	612	1,988
24	5,756	0	0	0	5,756	6,685	0	6,685	678	0	678
25	0	0	0	0	0	21	0	21	0	0	0
26	25,346	25,551	1,900	6,000	58,797	32,698	150	32,848	6,392	738	7,130
27	19,011	4,656	2,032	975	26,674	32,738	198	32,936	2,320	174	2,494
28	0	0	0	0	0	22	0	22	0	0	0
29	227	330	0	0	557	25	0	25	4	0	4
30	5,151	4,860	152	45	10,208	1,723	720	2,443	240	156	396
31	1,230	1,164	99	0	2,493	4,820	0	4,820	0	0	0
32	197	0	0	0	197	6,053	0	6,053	0	0	0
38	5,301	2,346	360	15	8,022	9,477	114	9,591	81	0	81
40	36,132	13,218	4,635	9,224	63,209	24,738	0	24,738	3,324	351	3,675
42	7,031	20,708	3,964	9,150	40,853	21,896	268	22,164	1,272	3,268	4,540
43	5,463	8,456	843	172	14,934	17,631	0	17,631	0	168	168
44	795	5,476	10,748	1,188	18,207	57	150	207	0	0	0
45	23,738	21,392	4,332	5,605	55,067	36,274	304	36,578	1,091	852	1,943
46	0	683	0	0	683	21,143	100	21,243	0	0	0
47	0	0	0	0	0	15,064	0	15,064	0	0	0
48	0	0	0	0	0	8,112	0	8,112	0	0	0
49	0	0	0	0	0	1,216	0	1,216	0	0	0
50	27,971	17,860	7,025	1,415	54,271	40,814	10	40,824	954	0	954
51	14,166	25,698	21,920	7,632	69,416	42,138	632	42,770	520	7,550	8,070
52	7,915	48,732	18,372	876	75,895	29,253	672	29,925	309	1,914	2,223
54	5,519	4,956	1,900	1,025	13,400	12,276	60	12,336	507	522	1,029
Sum	260,518	298,938	120,567	63,812	743,834	484,826	5,718	490,544	22,167	20,989	43,156
2011-12											
Completed SCH Weighted	523,556	604,551	241,134	127,624	1,496,865	972,104	11,436	983,540	47,551	44,028	91,579

Remedial credit hours are excluded from university totals.

Summer school totals reflect nursing and science-based prerequisites only.

Completed includes grades of "A" through "F", Pass (P), Audit (AU or AD), Incomplete (I), Unsatisfactory (U), and X which is used for courses not completed in one term such as dissertation where the grades is assigned upon completion. Grades under appeal also included.

Non-resident line items include Children of Alumni, Good Neighbor, Non-resident/out-of state, and WICHE/WUE.

NSHE COURSE TAXONOMY
Science and Trade/Tech Discipline Clusters
 Fall 2011 and Spring 2012 Course Offerings

CIP CODE & SUBJECT AREAS	COURSE PREFIX	COURSE DESCRIPTION
Sciences		
01. Agricultural, Agriculture Operations, and Related Sciences		
01.01 - Agricultural Business & Management	AGR	Agriculture
01.06 - Applied Horticulture & Horticultural Business Services	FLOR	Floral Design
	OH	Ornamental Horticulture
01.09 - Animal Sciences	ANSC	Animal Science
03. Natural Resources & Conservation		
03.01 - Natural Resources Conservation & Research	ENV	Environmental Studies
	ESH	Environmental Safety and Health
	NRES	Natural Resource and Environmental Science
03.02 - Natural Resources Management and Policy	RECO	Resource Economics
03.99 - Natural Resources & Conservation, Other	UNAE	UNR Academy for the Environment
11. Computer & Information Sciences & Support Services		
11.01 - Computer & Information Sciences, General	CIT	Computer and Information Technology
	CSCO	CISCO
	INF	Informatics
11.07 - Computer Science	CS	Computer Science
11.08 - Computer Software & Media Applications	VMT	Visual Media Technology
11.99 - Computer & Info Sciences & Support Services, Other	CA	Computer Applications
26. Biological & Biomedical Sciences		
26.01 - Biology, General	BIOL	Biology
26.02 - Biochemistry, Biophysics & Molecular Biology	BCH	Biochemistry
26.04 - Cell/Cellular Biology & Anatomical Sciences	CMB	Cell and Molecular Biology
26.05 - Microbiological Sciences & Immunology	MICR	Microbiology
26.07 - Zoology/Animal Biology	CMPP	Cell and Molecular Pharmacology and Physiology
	ENT	Entomology
26.09 - Physiology, Pathology & Related Sciences	PCB	Physiology and Cell Biology
26.12 - Biotechnology	BIOT	Biotechnology
26.13 - Ecology, Evolution, Systematics, & Population Biology	EECB	Ecology, Evolution, and Conservation Biology
40. Physical Sciences		
40.01 - Physical Sciences	SCI	Science
40.02 - Astronomy & Astrophysics	AST	Astronomy
40.04 - Atmospheric Sciences & Meteorology	ATMS	Atmospheric Science
40.05 - Chemistry	CHEM	Chemistry
	RDCH	Radiochemistry
40.06 - Geological & Earth Sciences/Geosciences	GEOL	Geology
	GPH	Geophysics
40.08 - Physics	PHYS	Physics
40.99 - Physical Sciences, Other	WRM	Water Resource Management

NSHE COURSE TAXONOMY
Science and Trade/Tech Discipline Clusters
 Fall 2011 and Spring 2012 Course Offerings

CIP CODE & SUBJECT AREAS	COURSE PREFIX	COURSE DESCRIPTION
Trades/Tech		
46. Construction Trades		
46.01 - Mason/Masonry	BRL	Bricklayers
	TLS	Tile Setter
46.02 - Carpenters	CPT	Carpentry
46.03 - Electrical & Power Transmission Installers	BTE	Building Trades: Electrical
	ELEC	Electrical
	ELM	Electrical Technology
	OPE	Operating Engineer
46.04 - Building/Construction Finishing, Management, & Inspection	BI	Building Inspector
	CONS	Construction
	FLCV	Floor Cover
	GLZR	Glazier
	PLST	Plaster
	PTD	Painting/Decorating
	RFR	Roofing
	SCT	Sustainable Construction
46.05 - Plumbing & Related Water Supply Services	BTP	Building Trades: Plumbing
	PPF	Plumbers/Pipe Fitters
46.99 - Construction Trades, Other	APP	Apprentice
	ASB	Asbestos
	BT	Building Technology
	OPME	Operating and Maintenance Engineers/Engineering
	PLCM	Plaster/Cement
	TMST	Teamster
47. Mechanic & Repair Technologies/Technicians		
47.02 - Heat, Air, Vent. & Refrig. Mtnc Tech/Tech (HAC, HACR, HVAC,	AC	Air Conditioning
	RS	Refrigerator Service
47.03 - Heavy/Industrial Equipment Maintenance Technologies	IT	Industrial Technology
47.06 - Vehicle Maintenance & Repair Technologies	ABDY	Autobody
	AUTB	Autobody
	AUTO	Automotive
	DT	Diesel Technology
47.99 - Mechanic & Repair Technologies/Technicians, Other	MT	Mechanical Technology
	TA	Technical Arts
48. Precision Production		
48.05 - Precision Metal Working	IRW	Iron Workers
	MTT	Machine Technology
	SMTL	Sheet Metal
	WELD	Welding
48.07 - Woodworking	WOOD	Woodworking
48.99 - Precision Production, Other	MPT	Manufacturing and Production Technology
49. Transportation & Materials Moving		
49.01 - Air Transportation	AV	Aviation
49.02 - Ground Transportation	TT	Transport Technology

APPENDIX C

Response to 7/11/12 Funding Formula Subcommittee

Formula Funding Proposal

General Fund Only State Budget with adjs for univs Research and Small Institution factor

WSCH for Resident Credit Hours only - FY12 annualized and projected flat to FY14

	FY 12	
	Formula Budgets	Oper Budget Gen Fund
UNR		92,294,710
UNLV		123,898,221
CSN		77,587,864
GBC		14,031,554
TMCC		30,603,292
WNC		15,029,964
NSC		9,111,439
Sub-Total FB's		362,557,044
Non-Formula Budgets		
System Administration		4,506,815
University Press		473,285
Special Projects		1,946,486
System Comp Services		16,669,848
WICHE		876,119
Intercollegiate Athletics - UNR		4,850,244
Statewide programs - UNR		3,256,905
Cooperative Extension Service		7,460,169
Agricultural Experiment Station		4,959,258
Business Center North		1,828,181
School of Medicine		29,906,783
State Health Lab		1,518,317
Intercollegiate Athletics - UNLV		6,988,826
Statewide programs - UNLV		2,502,209
Business Center South		1,583,585
Law School		6,909,123
Dental School		7,005,286
Perkins Loans		35,793
Desert Research Institute		7,421,572
Sub-Total NFB's		110,698,804
Total NSHE GF Revenues		473,255,848
Total Formula Budgets		362,557,044
Less: SIF & O&M carve out		1,919,220
Net GF allocation-formula budgets		360,637,824
Total WSCH-includes research adj		2,669,282
\$/WSCH		\$135.11

	FY 14		Small Institution Factor	FY 14 Gen Fund Distribution	FY 14 GF Incr/Decr over FY12 GF
	WSCH w/o NRSCH	\$/WSCH			
	659,685	\$135.11		89,127,849	(3,166,861)
	934,511	\$135.11		126,258,677	2,360,456
	638,374	\$135.11		86,248,591	8,660,727
	63,041	\$135.11	1,108,770	9,626,030	(4,405,524)
	209,107	\$135.11		28,251,752	(2,351,540)
	72,985	\$135.11	810,450	10,671,211	(4,358,753)
	91,579	\$135.11		12,372,934	3,261,495
	2,669,282		1,919,220	362,557,044	0

WSCH - Weighted Student Credit Hours

NRSCH - Non Resident Student Credit Hours

Small Institution Factor - \$1.5M Cap phased out between 50K to 100K WSCH

Research factor of 1.10 applied against universities upper division and graduate WSCH
Resident students credit hours only

Adjustments to FY12 Operating Budget:

UNR GF adjusted by <\$2.9M> for rechg adjmt - AES, CES, ICA, and S/W increased

UNLV GF adjusted by <\$3.12M> for rechg recalc - LS, DS, ICA, and S/W increased

WSCH projection methodology - FY12 annualized WSCH projected to FY14

A review of funding models for the Desert Research Institute is currently underway

APPENDIX D

NSHE Course Taxonomy Student Credit Hour Distribution

Student Credit Hours x Discipline Weights

Support Levels		UNLV				UNR				CSN			GBC			TMCC		WNC			NSC				
		Lower Division	Upper Division	Masters	Doctoral	Total	Lower Division	Upper Division	Masters	Doctoral	Total	Lower Division	Upper Division	Total	Lower Division	Upper Division	Total	Lower Division	Upper Division	Total	Lower Division	Upper Division	Total		
Fall 2011 F for Non-Attend (Less than 60%)																									
Liberal Arts	2127.0	888.0	136.0	0.0	3151.0	140.0	30.0	0.0	0.0	170.0	7122.0	6.0	7128.0	299.0	6.0	305.0	3727.0	15.0	0.0	15.0	271.0	354.0	625.0		
Basic Skills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	247.5	0.0	247.5	0.0	0.0	0.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0		
Business	162.0	378.0	96.0	36.0	672.0	24.0	0.0	0.0	0.0	24.0	1293.0	0.0	1293.0	24.0	0.0	24.0	477.0	0.0	0.0	0.0	18.0	96.0	114.0		
Education	49.5	64.0	122.5	15.0	251.0	0.0	0.0	0.0	0.0	0.0	547.5	6.0	553.5	22.5	6.0	28.5	175.5	0.0	0.0	0.0	172.5	72.0	244.5		
Services	85.5	84.0	0.0	0.0	169.5	9.0	0.0	0.0	0.0	9.0	1039.5	0.0	1039.5	18.0	0.0	18.0	667.5	0.0	0.0	0.0	0.0	18.0	18.0		
Perf Arts	387.0	97.5	0.0	0.0	484.5	27.0	37.5	0.0	0.0	64.5	1392.0	0.0	1392.0	31.5	0.0	31.5	532.5	0.0	0.0	0.0	54.0	0.0	54.0		
Trades/Tech	0.0	7.5	0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0	904.0	0.0	904.0	0.0	0.0	0.0	586.0	0.0	0.0	0.0	0.0	0.0	0.0		
Sciences	1482.0	216.0	0.0	0.0	1698.0	18.0	9.0	0.0	0.0	27.0	2882.0	0.0	2882.0	64.0	0.0	64.0	850.0	6.0	0.0	6.0	28.0	0.0	28.0		
Law	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0	0.0	30.0	0.0	0.0	0.0	132.0	0.0	0.0	0.0	0.0	0.0	0.0		
Eng/Arch	152.0	78.0	0.0	0.0	230.0	0.0	0.0	0.0	0.0	0.0	226.0	0.0	226.0	0.0	0.0	0.0	338.0	0.0	0.0	0.0	0.0	0.0	0.0		
Health	152.0	86.0	105.0	0.0	343.0	36.0	24.0	0.0	0.0	60.0	770.0	0.0	770.0	36.0	0.0	36.0	142.0	0.0	0.0	0.0	16.0	114.0	130.0		
Sum	4597.0	1899.0	459.5	51.0	7006.5	254.0	100.5	0.0	0.0	354.5	16463.5	12.0	16465.5	495.0	12.0	507.0	7672.5	21.0	0.0	21.0	559.5	654.0	1213.5		
Fall 2011 ALL F Grades																									
Liberal Arts	6042.0	2022.0	184.0	30.0	8278.0	4503.0	1318.0	12.0	0.0	5833.0	17237.0	6.0	17243.0	999.0	42.0	1041.0	8791.0	1292.0	6.0	1298.0	1812.0	1044.0	2856.0		
Basic Skills	9.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	544.5	0.0	544.5	0.0	0.0	0.0	54.0	0.0	0.0	0.0	0.0	0.0	0.0		
Business	399.0	1092.0	228.0	36.0	1755.0	318.0	414.0	24.0	0.0	756.0	2365.0	0.0	2365.0	138.0	12.0	150.0	912.0	132.0	0.0	132.0	48.0	186.0	234.0		
Education	151.5	88.0	162.5	15.0	417.0	108.0	60.0	22.5	0.0	190.5	1038.0	8.0	1046.0	49.5	6.0	55.5	393.0	30.0	0.0	30.0	346.5	178.0	524.5		
Services	243.0	288.0	9.0	0.0	540.0	171.0	114.0	0.0	0.0	285.0	2178.0	0.0	2178.0	72.0	0.0	72.0	1008.0	288.0	0.0	288.0	0.0	30.0	30.0		
Perf Arts	1144.5	255.0	15.0	0.0	1414.5	664.5	92.5	0.0	0.0	757.0	3160.5	0.0	3160.5	112.5	0.0	112.5	1017.0	42.0	0.0	42.0	189.0	0.0	189.0		
Trades/Tech	0.0	7.5	0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0	1146.0	0.0	1146.0	0.0	0.0	0.0	716.0	6.0	0.0	6.0	0.0	0.0	0.0		
Sciences	4156.0	951.0	75.0	0.0	5182.0	2482.0	858.0	35.0	0.0	3375.0	7972.0	0.0	7972.0	166.0	9.0	175.0	2114.0	447.0	0.0	447.0	1240.0	48.0	1288.0		
Law	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.0	0.0	74.0	0.0	0.0	0.0	192.0	0.0	0.0	0.0	0.0	0.0	0.0		
Eng/Arch	340.0	342.0	0.0	0.0	682.0	230.0	519.0	25.0	0.0	774.0	424.0	0.0	424.0	8.0	0.0	8.0	516.0	34.0	0.0	34.0	0.0	0.0	0.0		
Health	410.0	290.0	180.0	0.0	880.0	330.0	206.0	15.0	0.0	551.0	1802.0	0.0	1802.0	48.0	0.0	48.0	246.0	32.0	0.0	32.0	36.0	300.0	336.0		
Sum	12895.0	5335.5	853.5	81.0	19165.0	8806.5	3581.5	133.5	0.0	12521.5	37941.0	14.0	37955.0	1593.0	69.0	1662.0	15959.0	2303.0	6.0	2309.0	3671.5	1786.0	5457.5		
Percent Excluded for Non-Attendance					36.6%	2.8%					43.4%					30.5%					0.9%				
Remedial credit hours are excluded from university totals.																									

Remedial credit hours are excluded from university totals.

APPENDIX E

Response to 7/11/12 Funding Formula Subcommittee

Formula Funding Proposal

General Fund Only State Budget with adjs for univs Research, Small Institution factor and removal of "F" grades for non-attendance from the WSCH
WSCH for Resident Credit Hours only - FY12 annualized and projected flat to FY14

	FY 12
Formula Budgets	Oper Budget Gen Fund
UNR	92,294,710
UNLV	123,898,221
CSN	77,587,864
GBC	14,031,554
TMCC	30,603,292
WNC	15,029,964
NSC	9,111,439
Sub-Total FB's	362,557,044
Non-Formula Budgets	
System Administration	4,506,815
University Press	473,285
Special Projects	1,946,486
System Comp Services	16,669,848
WICHE	876,119
Intercollegiate Athletics - UNR	4,850,244
Statewide programs - UNR	3,256,905
Cooperative Extension Service	7,460,169
Agricultural Experiment Station	4,959,258
Business Center North	1,828,181
School of Medicine	29,906,783
State Health Lab	1,518,317
Intercollegiate Athletics - UNLV	6,988,826
Statewide programs - UNLV	2,502,209
Business Center South	1,583,585
Law School	6,909,123
Dental School	7,005,286
Perkins Loans	35,793
Desert Research Institute	7,421,572
Sub-Total NFB's	110,698,804
Total NSHE GF Revenues	473,255,848
Total Formula Budgets	362,557,044
Less: SIF & O&M carve out	1,950,900
Net GF allocation-formula budgets	360,606,144
Total WSCH-includes research adj	2,602,324
\$/WSCH	\$138.57

FY 14 WSCH w/o NRSCH	\$/WSCH	Small Institution Factor	FY 14 Gen Fund Distribution	FY 14 GF Incr/Decr over FY12 GF
658,981	\$138.57		91,315,531	(979,179)
920,016	\$138.57		127,487,362	3,589,141
605,443	\$138.57		83,896,727	6,308,863
62,027	\$138.57	1,139,190	9,734,322	(4,297,232)
193,762	\$138.57		26,849,757	(3,753,535)
72,943	\$138.57	811,710	10,919,481	(4,110,483)
89,152	\$138.57		12,353,865	3,242,426
2,602,324		1,950,900	362,557,044	0

WSCH - Weighted Student Credit Hours

NRSCH - Non Resident Student Credit Hours

Small Institution Factor - \$1.5M Cap phased out between 50K to 100K WSCH

Research factor of 1.10 applied against universities upper division and graduate WSCH
Resident students credit hours only

Adjustments to FY12 Operating Budget:

UNR GF adjusted by <\$2.9M> for rechg adjmt - AES, CES, ICA, and S/W increased

UNLV GF adjusted by <\$3.12M> for rechg recalc - LS, DS, ICA, and S/W increased

WSCH projection methodology - FY12 annualized WSCH projected to FY14

A review of funding models for the Desert Research Institute is currently underway

Nevada System of Higher Education

System Administration

5550 West Flamingo Road, Suite C-1
Las Vegas, NV 89103-0137
Phone: 702-889-8426
Fax: 702-889-8492



System Administration

2601 Enterprise Road
Reno, NV 89512-1666
Phone: 775-784-4901
Fax: 775-784-1127

PROPOSED BASE BUDGET FORMULA MODEL FOR DRI

At the last subcommittee meeting there was considerable discussion of the difference in mission and operation of DRI and other System institutions. For that reason, to this point, DRI has not been included in our formula proposals which have basically dealt with the teaching institutions and which have been based on their teaching function. However, recognizing the important role that DRI plays in the economic development goals of the State and understanding that DRI leverages a small portion of its budget to grow its research capacity, the NSHE now proposes the inclusion of DRI in the formula model in the following manner:

Current O&M/NSHE New Space Formula

In its proposal for teaching institutions, facilities are treated as a means of building capacity for student success and therefore O&M is included in the weighted student credit hour concept. Because DRI facilities will not produce greater student capacity, a different treatment is indicated. Funding physical plant operations and maintenance includes both non-formula components and new space formula components. Allocations for utilities, insurance, and rental or lease costs are not formula driven and are budgeted separately based on consumption, rate changes, contractual agreements, and addition or subtraction of any facilities. The existing new space formula provides O&M support for operating, personnel, equipment, and utility costs based upon new facility square footage and new improved acreage. Operating costs are determined by applying the current cost per maintained square foot of existing facilities against new facility space and personnel and equipment costs are based upon salary and equipment costs approved by the Legislature for use in the NSHE funding formula for O&M support.

Institutional and Research Administration Formula

This is the second aspect of DRI funding is a new step function model which acknowledges the complexity and cost associated with the growth of the research function and encourages DRI to maximize its efforts in that regard. This driver replaces current line item funding of DRI infrastructure on a revenue neutral basis. Institutional and research administration support would equal 13% of the first \$25,000,000 of grants and contracts. Plus 10% of the next \$5 million in grants and contracts (from \$25,000,001 to \$30,000,000 million). Plus 9% of the next \$5 million in grants and contracts (from \$30,000,001 to \$35,000,000). Plus 7% of any grants and contracts of \$35,000,001 or more. See following example:

Step Break and Formula Calculation (an example)					
(based on Sponsored Projects Expenditures)					
		Total	Formula		
Percentage	Step	Revenue	Calculation	Total by	
Per Step	Breaks	by Step	By Step	Step	
7.0%	4,000,000	39,000,000	280,000	4,480,000	
9.0%	5,000,000	35,000,000	450,000	4,200,000	
10.0%	5,000,000	30,000,000	500,000	3,750,000	
13.0%	25,000,000	25,000,000	3,250,000	3,250,000	
	Cummulative Amount		4,480,000		

The two components together have been designed to approximate the current State base budget funding to DRI.

**COMMITTEE TO STUDY THE FUNDING OF HIGHER EDUCATION'S
PERFORMANCE POOL, ECONOMIC AND WORKFORCE DEVELOPMENT, AND
RESEARCH SUBCOMMITTEE
(SENATE BILL 374, 2011 LEGISLATURE)**

WORK SESSION

August 15, 2012

As Subcommittee members are aware, each Subcommittee was tasked with reviewing key areas pertaining to the funding of higher education in Nevada and forwarding recommendations for the Committee's consideration at its final meeting on Wednesday, August 29, 2012. At its June 26, 2012, and July 23, 2012, meetings the Performance Pool, Economic and Workforce Development, and Research Subcommittee reviewed and discussed issues related to performance funding as proposed by the Nevada System of Higher Education (NSHE) and the Office of the Governor. The major issues listed and discussed below represent the main policy aspects for which the Subcommittee will want to consider making recommendations. Additionally, when formulating recommendations, members may wish to consider recommendations which are time specific and contain a recommendation that a particular performance aspect be reexamined, and adjusted, as determined appropriate by the Legislature after being implemented over one or several biennia.

Major Performance Pool Issues

1. Source of General Fund Appropriations for Performance Funding
2. Percentage or Dollar Amount of Funds to be Allocated to Performance
3. Approach to Implement Performance Funding
4. Structure and Operation of a Performance Funding Pool
5. Metrics or Measures of Performance and Associated Weights/Values
6. Desert Research Institute (DRI) Performance Funding

1. Source of General Fund Appropriations for Performance Funding

Summary of Issue: As proposed by the NSHE, implementation of performance funding would be supported by new (additional) General Fund appropriations rather than being funded by "carving out" monies from each institution's base General Fund appropriations ultimately approved for the seven teaching institutions by the 2013 Legislature. However, as recommended by the Office of the Governor and the National Governors Association (NGA), performance funding is most effective when funded from an institution's base funding. Information provided by SRI International indicates that 10 states (Florida, Indiana, Kansas, Louisiana, New Mexico, Ohio, Pennsylvania, Tennessee, Texas and Washington) utilize performance funding in the funding of higher education. Of the 10 states, which already utilize performance funding, 5 fund performance from the institutions' base appropriations. A sixth state, Florida, intends to move to the base funding approach. Florida and the 4 other states currently fund performance with new or bonus funding. Additionally, according to SRI International, another eight 8 states reported having plans to switch to performance funding and 14 states, including Nevada, are identified as considering performance funding.

Finally, while SRI International did not specifically identify a national best practice for performance funding, it noted, “Performance-based rewards structured as bonus funding were the first to be eliminated when state revenues went down. Integration with the base allocation protects performance-based funding while communicating a state’s commitment to outcomes.”

The Subcommittee has several options in terms of recommending funding for a system of performance funding, including:

- a. Adopt the approach recommended by NSHE in which funding for institutions’ performance is funded with new General Fund appropriations rather than from the institutions’ base appropriations.**
- b. Adopt the approach recommended by the Governor’s Office and the NGA that performance funding be funded from the NSHE institutions’ base General Fund appropriations.**
- c. Adopt a recommendation that performance should be primarily funded from the existing base appropriation, but also recommend that a percentage of any new General Fund appropriations the 2013 Legislature may approve for the NSHE institutions be used to fund performance. If the Subcommittee adopts this recommendation it may want to indicate the recommended percentages as guidance to the 2013 Legislature.**

What recommendation does the Subcommittee wish to make?

2. Percentage or Dollar Amount of Funds to be Allocated to Performance:

Summary of Issue: The full Committee heard testimony from the NGA that in designing a performance pool, it should be of sufficient value to be “worth an institution’s time and effort” to meet the defined metrics. According to the NGA, “states’ earlier experiments showed that anything below 5.0 percent is unlikely to: a) significantly modify institutional behavior and thus outcomes; and b) survive for long, because it will not have a strong constituency and thus be easier to eliminate.” The NGA also indicated that while it is unclear what impact approaches such as Tennessee’s 100 percent approach will have, positive results have been observed in Pennsylvania with a 8.0 percent of the base approach. In its report on the States’ Use of Performance-Related Criteria, SRI International indicates that “to be effective, states need to tie performance-related funding to a significant share of an institution’s overall income if the criteria are to have an impact on behavior. While there is considerable debate about what constitutes a “significant” share, in the past those states that have implemented performance-based funding have done so at levels too low to truly incentivize behavior.” In comments before the full Committee as well as the Subcommittee, the Governor’s Office has indicated support for a “low double digit” percentage of an institution’s base General Fund appropriation being set-aside for performance funding.

According to information provided by the NGA and SRI International, there is not a standard percentage or amount of funding dedicated by states to performance funding. For example, 100 percent of higher education base appropriations either are currently performance-based or planned to be performance-based in Ohio and Tennessee. In Louisiana, when phased-in, 25.0 percent of institutions’ base funding will be tied to

performance. However, on the lower end, in Pennsylvania and Indiana, performance funding set-asides from institutions' base appropriations are 8.0 percent and 5.0 percent, respectively. NGA's understanding is that states currently implementing performance systems are starting with percentages in the low double digits all the way up to 100 percent.

The 2011 Legislature approved \$362.56 million in General Fund appropriations for the seven NSHE teaching institutions in each fiscal year of the current 2011-13 biennium. General Fund appropriations were approved as follows.

2011 Legislature Approved General Fund Appropriations for NSHE Institutions for 2011-13 Biennium			Examples of Performance Funding Percentages and Corresponding General Fund Appropriation Amounts Based Upon FY 2013 Appropriation Levels				
INSTITUTION	FY 2012	FY 2013	10.00%	12.50%	15.00%	17.50%	20.00%
UNLV	\$ 123,898,221	\$ 123,898,221	\$ 12,389,822	\$ 15,487,278	\$ 18,584,733	\$ 21,682,189	\$ 24,779,644
UNR	\$ 92,294,710	\$ 92,294,710	\$ 9,229,471	\$ 11,536,839	\$ 13,844,207	\$ 16,151,574	\$ 18,458,942
CSN	\$ 77,587,864	\$ 77,587,864	\$ 7,758,786	\$ 9,698,483	\$ 11,638,180	\$ 13,577,876	\$ 15,517,573
GBC	\$ 14,031,554	\$ 14,031,554	\$ 1,403,155	\$ 1,753,944	\$ 2,104,733	\$ 2,455,522	\$ 2,806,311
TMCC	\$ 30,603,292	\$ 30,603,292	\$ 3,060,329	\$ 3,825,412	\$ 4,590,494	\$ 5,355,576	\$ 6,120,658
WNC	\$ 15,029,964	\$ 15,029,964	\$ 1,502,996	\$ 1,878,746	\$ 2,254,495	\$ 2,630,244	\$ 3,005,993
NSC	\$ 9,111,439	\$ 9,111,439	\$ 911,144	\$ 1,138,930	\$ 1,366,716	\$ 1,594,502	\$ 1,822,288
TOTAL	\$ 362,557,044	\$ 362,557,044	\$ 36,255,704	\$ 45,319,631	\$ 54,383,557	\$ 63,447,483	\$ 72,511,409

The information above is provided to demonstrate varying levels of performance pool funding and percentages based on the General Fund appropriation for NSHE for the 2011-13 biennium.

While the Subcommittee needs to make a recommendation on the percentage or dollar amount to be allocated towards performance, the Subcommittee may first wish to review and consider the next policy issue – the implementation approach – discussed below, before adopting a percentage or dollar amount recommendation.

3. Approach to Implement Performance Funding

Summary of Issue: In adopting performance funding for their higher education systems, some states (Louisiana, Ohio, Tennessee) have established multi-year implementation approaches. It appears this approach is more common when a percentage of base appropriations system has been adopted. In this performance funding approach, it appears a target goal is first established and then incrementally implemented over a two-to-five year period. The NGA recommends the incremental, phased-in approach for states implementing performance funding because a phased-in approach provides systems and institutions time to plan budgetarily, time to work with faculty, staff and students on implementation processes, and time for unintended consequences to be identified and addressed. Additionally, the NGA recommends the use of a “stop-loss” mechanism, but not “hold-harmless” when implementing a system of performance funding where funds are drawn from institutions’ base appropriations. Whether a stop-loss approach would be necessary is dependent upon the magnitude of the base appropriations being carved out for performance.

The Subcommittee may wish to make separate recommendations or a single recommendation in considering these two policy issues. To assist the Subcommittee, the policy considerations are shown separately.

First, the Subcommittee should consider a recommendation pertaining to the percentage amount or dollar amount to be allocated towards a system of performance funding, including:

- a. Recommend a percentage, such as 10.0 percent, that is to be effective at the start of a particular fiscal year, such as FY 2015. The Subcommittee's recommendation should indicate whether the percentage is global and uniform across institutional tiers or whether different percentages are to be applied, either by institutional tier or by specific institution.
- b. Recommend a fixed dollar amount that is to be effective at the start of a particular fiscal year, such as FY 2015. The Subcommittee's recommendation should indicate whether the dollar amount is global and uniform across institutional tiers or whether different amounts are to be recommended, either by institutional tier or by specific institution.

What recommendation does the Subcommittee wish to make?

Second, the Subcommittee should consider a recommendation regarding how a performance funding system for the NSHE institutions is implemented, including:

- a. Recommend a phased-in approach in which the chosen percentage or dollar amount is set as a target goal to be implemented over a multi-year period. If the Subcommittee adopts this recommendation, it will want to identify the target goal percentage/amount, the length of the implementation period and the applied performance percentage or amount for each year of the implementation period. The Subcommittee will also want to consider the use of stop-loss.
- b. Recommend that implementation of the system of performance funding occur in one fiscal year. If the Subcommittee chooses this option, it should identify the fiscal year.

What recommendation does the Subcommittee wish to make?

4. Structure and Operation of the Performance Funding Pool:

Summary of Issue: As proposed, and reflected in Version #20 of the NSHE Performance Funding Pool model, three independent tiers are proposed. Within each tier, the assigned institutions would be measured against specific progress and outcome metrics. As proposed by the Governor's Office and the Chancellor's Office, each performance metric would be weighted to reflect its relative value within the tier's pool. The weighting is intended to reflect a policy priority. An institution's output for a particular performance metric is then multiplied by the policy weighting to determine a weighted point value. The institution's point values are then summed to generate a total weighted points. The institution's total weighted points is divided by the tier's (all

institutions') total weighted points to derive a percentage for each institution which is reflected as a "Distribution of Points" percentage. This "points percentage" is then applied to the tier's funding pool, with the available funding distributed among institutions based upon the points percentages. For the proposed Nevada State College (NSC) tier, it is understood that NSC's performance will be measured as "improvement over a prior period." The Chancellor's Office has provided additional clarification on the operation of this tier that should NSC not achieve at least the total weighted points from the prior year, the percent difference will not be allocated. In other words, if NSC is 10 percent short in points from the prior year NSC will only receive 90 percent of the Performance Pool funds. The remaining 10 percent will carry over until the next year for a larger pool subject to distribution in that next year. NSC must make up for performance shortfalls from the prior year to earn 100 percent of the subsequent year's performance funding – inclusive of the funds carried forward. An operational point that the Subcommittee may want to clarify with the Governor's Office and the Chancellor's Office is how institutions' (other than NSC) year-over-year progress will be incentivized under the proposed point system. As proposed, institutions will compete against each other based upon points awarded for comparative performance, i.e., how one institution did compared to another on a particular metric for a particular fiscal year.

The NGA recommends that year-over-year improvement be rewarded. If the proposed system does not include incentivizing institutions for year-over-year improvement, the Subcommittee may wish to include it in its recommendation(s).

Funding for the pool is also based upon the tier structure. If funded from each institution's base appropriation (with tier participants "contributing" the assigned percentage or amount) based upon its performance, an institution may receive more or less than it contributed. If funded from new appropriations, the available funds would also be distributed based upon the calculated "points percentages."

The issue of "when" performance funding will be implemented has not been fully discussed. However, since performance would be measured after the end of a fiscal year, it is likely that funds would be awarded in the subsequent fiscal year. For example, if performance funding is implemented in FY 2014, institutions' FY 2014 performance would be measured against FY 2013 performance and the performance pool would be funded in FY 2015 from the FY 2015 carve-out. The Subcommittee will want to ask the Governor's Office and the Chancellor's Office to explain the recommended timeframe for implementing performance funding and how the system is envisioned to work. The Chancellor's Office should also be asked if the necessary system(s) for data collection are ready.

Based upon information provided by SRI International and the NGA, there does not appear to be a national best practice upon which the Subcommittee can draw.

The Subcommittee has various options for recommending the structure and operation of a performance funding pool, including:

- a. Adopt the proposed three-tiered structure and points system proposed by the Governor's Office and the Chancellor's Office based upon the clarifications provided. If the Subcommittee adopts this recommendation, the Subcommittee may wish to add a year-over-year progress component.**

- b. **Recommend a different tier structure, such as two tiers, and/or a different point system approach. If the Subcommittee adopts this option, it will want to indicate the number of tiers, the assignment of institutions to tiers, the performance (comparative and/or year-over-year) to be incentivized, the weighting and point system, and the timeframe for implementation.**
- c. **Adopt a recommendation that further refinement of the performance funding pool is needed before it is implemented. The Subcommittee should identify the areas to be further refined and a corresponding timeframe.**

What recommendation does the Subcommittee wish to make?

5. Metrics or Measures of Performance and Associated Weights/Value

Summary of Issue: The full Committee heard testimony from both the NGA and SRI International regarding the importance of selecting appropriate metrics of performance and following certain principles when selecting measures of performance. For example, the NGA recommends, based upon lessons learned from states' prior performance funding experiments, that the following design principles be kept in mind when selecting metrics:

- Goals are essential.
- Metrics should not be narrow.
- Honor and reinforce mission.
- Reward serving the underserved.
- Limit the outcomes to be rewarded.
- Use clear metrics.
- Reward continuous improvement.
- Make it worth the time and effort.
- Make sure metrics align with state goals.

SRI International's recommendations, as detailed in its deliverable on States' Use of Performance Related Criteria, indicate that performance systems should support the following policy goals:

- Alignment with policy/economic development goals.
- Attainment of college degrees by adults.
- Quality, to ensure degrees awarded have meaning.

Additionally, to improve a performance funding system's chance of success, SRI International recommends that selected performance measures have the following qualities:

- Clarity and simplicity.
- Differentiation to reflect the different missions of institutions.
- Scale or sufficient magnitude of performance funding available to incentivize behavior change.

In reviewing the various iterations of the performance funding pool proposed by the Governor's Office and the Chancellor's Office, the Subcommittee has asked questions pertaining to the use of national benchmarks and the inclusion of quality measures. Follow-up information has been provided by the Chancellor's Office that is included in

the meeting materials as the document entitled NSHE August 10, 2012, Responses to LCB Questions. Also included is an August 8, 2012, letter from Mr. Travis Reindl of the NGA providing additional information on performance funding.

As noted previously under Major Issue #4, the proposed performance metric weights contained in the proposed pool have been assigned to reflect a policy priority. However, when combined with a points-based system, the assigned weights have the effect of producing an “effective weight”, which differs from what is otherwise shown. The Chancellor’s Office has provided additional clarification on this issue in its NSHE August 10, 2012, Responses to LCB Questions document.

The Subcommittee has various options for recommending the measures of performance and associated weights for a performance funding pool, including:

- a. Adopt the proposed performance measures and policy weights as proposed by the Governor’s Office and the Chancellor’s Office.**
- b. Recommend different measures of performance or policy weights for each tier or only certain tiers. If the Subcommittee adopts this option, it will want to identify measures of performance as well as the weights to be applied.**
- c. Adopt a recommendation that further refinement of the measures of performance is needed before it is implemented. The Subcommittee should identify the measures which should be further refined and a corresponding timeframe.**

What recommendation does the Subcommittee wish to make?

6. Desert Research Institute Performance Funding:

Summary of Issue: In the NSHE’s presentation on the performance pool, the Desert Research Institute (DRI) has been presented as an evolving issue, and has generally been excluded for the three-tiered model presented to both the full Committee as well as the Subcommittee, including from Version #20. A copy of which is provided in the NSHE August 10, 2012, Responses to LCB Questions document.

On August 6, 2012, the Chancellor’s Office provided the Fiscal Analysis Division with a revised formula-based proposal for the DRI by which DRI’s base appropriations would be calculated in the future. At present, with the exception of calculating Operations and Maintenance costs, DRI is not a formula funded institution.

The following information has been presented to the Formula Funding Subcommittee as the NSHE’s proposal for DRI pertains to base funding. However, the Fiscal Analysis Division is also providing the same information to this Subcommittee in the event that the Funding Formula Subcommittee determines that the DRI proposal should be considered as performance funding. Additionally, since the Funding Formula Subcommittee meets prior to this Subcommittee, staff will be able to inform the Subcommittee of the recommendation(s) the Funding Formula Subcommittee adopted with respect to the proposal.

**Excerpt from the Work Session Document
Prepared for the Funding Formula Subcommittee**

Staff's understanding is that it is now proposed that future General Fund appropriations for DRI be calculated by a formula tied to levels of non-General Fund supported research expenditures rather than the Base-Maintenance-Enhancement approach. Staff's understanding is that it is now proposed that future General Fund supported research expenditures rather than the Base-Maintenance-Enhancement approach. Staff also understands that the intent of the formula approach is to provide DRI with an "automatic growth" mechanism analogous to completed credit hours at the teaching institutions. When completed credit hours increase at a teaching institution, under the formula, additional General Fund appropriations would be budgeted, subject to appropriation by the Legislature. As proposed for DRI, as funded grant expenditures increase, the formula would calculate greater General Fund appropriation support. Staff would point out that the traditional Base-Maintenance-Enhancement approach also provides a "growth" mechanism for DRI.

Currently, all of DRI's grant supported research revenues and expenditures are budgeted outside of the state supported operating budget. Additionally, all indirect cost recovery revenues and expenditures are also budgeted outside of DRI's state supported operating budget.

As with the formula proposal for the seven teaching institutions, the Chancellor's Office is proposing that this formula will initially be General Fund appropriation neutral. A copy of the DRI formula proposal is included in the Subcommittee meeting materials.

There are a number of aspects of the proposed formula approach that require clarification. These include: 1) the total level of grant supported research expenditures; 2) the amount of indirect cost recovery currently collected; 3) the DRI operating costs funded by those revenues; 4) the type of expenditures the additional General Fund appropriations would fund; and 5) whether this proposal is more appropriately considered for performance funding rather than being the basis for DRI's "base" funding.

The Subcommittee has several options with regard to including or excluding DRI in a funding formula. These include:

- a. Recommend that funding for DRI's state supported operating budget continue to be calculated through the Base-Maintenance-Enhancement budget building approach.**
- b. Provisionally adopt the new formula proposed by the Chancellor's Office subject to further clarification being provided.**
- c. Recommend that the proposal be considered as part of any performance funding approach approved by the Performance Pool, Economic and Work Force Development, and Research Subcommittee as well as the full Committee.**

In the event that the Funding Formula Subcommittee adopts recommendation “C”, what recommendations does the Subcommittee wish make with regard to establishing a performance pool for the Desert Research Institute?

Based upon the Subcommittee’s actions, staff will prepare a report containing the recommendations for the full Committee’s consideration at the final meeting on Wednesday, August 29, 2012.

Nevada System of Higher Education



Responses to LCB Questions from the
July 23, 2012, meeting of the
Committee to Study the Funding of Higher Education's
Performance Pool, Economic and
Workforce Development, and Research Subcommittee

August 10, 2012

System Administration • University of Nevada, Reno • University of Nevada, Las Vegas •
College of Southern Nevada • Great Basin College • Truckee Meadows Community College •
Western Nevada College • Desert Research Institute • Nevada State College

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Document Prepared by the Finance Department
Office of the Chancellor

The following are the Nevada System of Higher Education responses to Legislative Counsel Bureau request for information dated August 3, 2012, from the Performance Pool, Economic and Workforce Development, and Research Subcommittee.

The latest version of the Performance Pool (v.20) is included in Appendix A.

QUESTION 1

During the Subcommittee's discussions, it was indicated that within the performance pool, non-resident graduate students were treated as if they were resident students for purposes of "counting" outcomes, such as degrees. Please clarify for which proposed outcome metrics non-resident students are included and whether this includes undergraduate non-resident students.

RESPONSE: For the purpose of the Performance Pool no distinction was made between resident and non-resident students, nor was a distinction made for graduate students (resident or non-resident). Rather all of the degree data for the performance pool, which includes number of certificates, associates, bachelor's, master's, doctoral, and STEM and Allied Health awards, are from the National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS). That database does not distinguish between residents and non-residents in their counting of awards. In addition to the award outcomes, all of the remaining outcomes used in the Performance Pool include non-resident students.

Please comment on whether the system's proposal to include non-resident students in the proposed General Fund appropriation-supported performance pool is consistent with the NSHE's alternative funding model that proposes to exclude the credit hours earned by non-resident students for purposes of calculating and distributing the "base" General Fund appropriations. An explanation of the rationale for this decision would be helpful.

RESPONSE: The different treatment of non-resident students is completely consistent with the difference between the base formula and the Performance Pool. In the base formula, the System suggested that the respective campuses retain tuition generated from non-resident students. Inherent in the retention of tuition is the assumption by the campus of responsibility for the expense of education, hence the exclusion of non-resident WSCH from the mechanism for generating state funding. The Performance Pool, as its name implies, measures how well the institution utilizes all of its funding sources to achieve the goals of the state identified in the pool's metrics. Whether those goals are achieved with respect to Nevada residents or non-residents is irrelevant to how well the institution is performing. The state's goal for more graduates and the goals of Complete College America do not require counting of degrees for Nevada residents only. We believe the goals of the Performance Pool should align appropriately with the aforementioned goals and therefore non-residents are included in all Performance Pool outcomes. It was only in the base funding model that non-resident students, except non-resident graduate assistants, were excluded from the WSCH. Non-resident graduate assistants were included because they are designated residents for tuition purposes and as a result NSHE institutions do not receive non-resident tuition from those students.

Finally, to the extent possible, please provide a revised Version #19 that removes non-resident students so that the Subcommittee can understand the effects of this policy decision.

RESPONSE: The system does not maintain data for all of the metrics that the committee has established in the Performance Pool and is unable to supply the revised version of the pool as requested.

QUESTION 2

Please clarify whether the university-tier outcome metric “Sponsored/External Research Expenditures in \$100,000’s” includes qualifying expenditures at the University of Nevada School of Medicine, University of Las Vegas School of Dental Medicine and the University of Las Vegas School of Law. If so, please explain the rationale for including the three professional schools, and, to the extent possible, please provide a revised Version #19 that removes the three schools’ qualifying expenditures in order that the Subcommittee can understand the effects of this policy decision.

RESPONSE: As a clarification, all versions of the Performance Pool included sponsored projects/ external research generated on that campus, which includes funds generated by faculty at the three professional schools. NSHE strongly recommends against removing those research grants, which are broken out in the following table:

	FY 11 Amt	Percent
UNR (not including Medical)	\$ 73,117,202	77.98%
Medical School	\$ 20,645,419	22.02%
	<hr/>	
	\$ 93,762,621	
UNLV (not including Dental/ Law)	\$ 48,865,223	98.26%
Dental	\$ 744,795	1.50%
Law	\$ 119,032	0.24%
	<hr/>	
	\$ 49,729,050	

Inclusion of extramural funding from all sources on a campus was intentional, and is a policy recommendation driven by several factors:

- First and foremost, it was the intention of NSHE and the NGA working group to create a model that incentivized entrepreneurial behavior in relation to state economic development goals. This includes the development of research base at NSHE institutions in all areas that may have the ability for funding. The NSHE is not aware of any policy reason to arbitrarily exclude research at the professional schools.
- Second, it is impossible to make a clear distinction between budget accounts for research, which is in many cases a multi-disciplinary activity. For instance, within the medical research portfolio, the Centers for Biomedical Research Excellence (COBRE) grants and

the IDeA Network for Biomedical Research Excellence (INBRE) grant not only support UNSOM faculty, but UNR as well in their research activities. These grants also provide important core research facilities that again provide support not only to UNSOM faculty but also UNR faculty. These core facilities include bioinformatics, proteomics, genomics and animal imaging capabilities. While different budget accounts for main campuses and professional schools provide an important accounting mechanism, in the case of research it is not an accurate way to allocate grant activity.

- Finally, from a mechanical standpoint, none of the professional schools are free standing enterprises and each relies on campus infrastructure for administration and support. Examples include the fiscal management provided by the Office of Sponsored Projects, the protection of human subjects via Institutional Review Board (IRB) approval, Institutional Care and Use of Animals Committee (IACUC), effort reporting, export control, laboratory safety training, and appropriate chemical waste handling and removal as well as compliance/regulatory services are provided by the main campuses. Because of the significant overlap of resources and responsibilities, it is not practical to make a distinction between main campuses and professional schools.

The following tables depict versions 19 and 20 of the University Performance Pool with the sponsored project expenditures for the professional schools removed for UNR and UNLV:

UNIVERSITY PERFORMANCE OUTCOMES AND POINTS (2010-11) -- v.19						
OUTCOMES	Weights	UNLV	UNLV Weighted Pts.	UNR	UNR Weighted Pts.	Total Weighted Points
Bachelor's Degrees	40%	3,771	1,508.4	2,412	964.8	2,473.2
Master's and Doctoral Degrees	15%	1,427	214.1	748	112.2	326.3
Sponsored/External Research Expenditures in \$100,000's	15%	488.7	73.3	731.2	109.7	183.0
Transfer Students w/a transferable associate's degree	5%	967	48.4	1,055	52.8	101.1
Efficiency - Awards per 100 FTE	5%	26.4	1.3	23.8	1.2	2.5
At Risk Graduates (minority and low income)	5%	2,218	110.9	770	38.5	149.4
Economic Development (STEM and Allied Health) Graduates	15%	857	128.6	1,009	151.4	279.9
TOTAL WEIGHTED POINTS	100%	--	2,084.9	--	1,430.5	3,515.3
DISTRIBUTION OF POINTS			59.3%		40.7%	100.0%

UNIVERSITY PERFORMANCE OUTCOMES AND POINTS (2010-11) -- v.20						
OUTCOMES	Weights	UNLV	UNLV Weighted Pts.	UNR	UNR Weighted Pts.	Total Weighted Points
Bachelor's Degrees	40%	3,771	1,508.4	2,412	964.8	2,473.2
Master's and Doctoral Degrees	10%	1,427	142.7	748	74.8	217.5
Sponsored/External Research Expenditures in \$100,000's	15%	488.7	73.3	731.2	109.7	183.0
Transfer Students w/a transferable associate's degree	5%	967	48.4	1,055	52.8	101.1
Efficiency - Awards per 100 FTE	10%	26.4	2.6	23.8	2.4	5.0
At Risk Graduates (minority and low income)	5%	2,218	110.9	770	38.5	149.4
Economic Development (STEM and Allied Health) Graduates	15%	857	128.6	1,009	151.4	279.9
TOTAL WEIGHTED POINTS	100%	--	2,014.8	--	1,394.3	3,409.1
DISTRIBUTION OF POINTS			59.1%		40.9%	100.0%

QUESTION 3

The Subcommittee discussed the weights recommended for each proposed outcome metric, such as “Bachelor’s Degrees” being weighted at 40.0 percent for the university tier. The Subcommittee expressed concern that the meaning of the proposed weighting percentages for each outcome metric was unclear. For example, as shown in the table below for the university tier, based upon the Total Weighted Points, the “effective weight” of each metric does not correspond to the otherwise indicated weight “value.”

UNIVERSITY PERFORMANCE OUTCOMES AND POINTS (2010-11)							
OUTCOMES	Weights	UNLV	UNLV Weighted Pts.	UNR	UNR Weighted Pts.	Total Weighted Points	Effective Weight of Metric
Bachelor's Degrees	40%	3,771	1,508.4	2,412	964.8	2,473.2	69.7%
Master's and Doctoral Degrees	15%	1,427	214.1	748	112.2	326.3	9.2%
Sponsored/External Research Expenditures in \$100,000's	15%	497.3	74.6	937.6	140.6	215.2	6.1%
Transfer Students w/a transferable Associate's Degree	5%	967	48.4	1,055	52.8	101.1	2.8%
Efficiency - Awards per 100 FTE	5%	26.4	1.3	23.8	1.2	2.5	0.1%
At Risk Graduates (minority and low income)	5%	2,218	110.9	770	38.5	149.4	4.2%
Economic Dev. (STEM and Allied Health) Graduates	15%	857	128.6	1,009	151.4	279.9	7.9%
TOTAL WEIGHTED POINTS	100%	--	2,086.2	--	1,461.4	3,547.6	
DISTRIBUTION OF POINTS			58.8%		41.2%	100.0%	100.0%

In light of the differences between the proposed weighting values and the calculated effective weights, please comment on whether the system considered methodologies through which the effective weights more closely approximated the percentage values expressed in the weight column.

RESPONSE: NSHE disagrees with the definition of the “effective weights.” For example, the 69.7 percent results from dividing 2,473.2, the total weighted points for bachelor’s degrees, by the total weighted points for all outcomes, 3,547.6. This calculation indicates the distribution of total points for each outcome. In other words, the weighted points for bachelor’s degrees accounts for 69.7 percent of the total weighted points – not an effective weight.

The proposed performance pool weighting methodology is modeled after the Tennessee performance pool that assigned weights across outcomes for a total of 100 percent. Other weighting methods were not considered. The weighting methodology utilized in the performance pool was reviewed by the National Governors Association who recommended no further changes.

QUESTION 4

As represented to the Subcommittee, institutions would compete within their respective tiers for the available performance funding, with 100 percent of the available performance funding awarded. Funding is to be allocated based upon each institution's percentage of the total performance points. First, please confirm if this understanding is correct. Second, please clarify how the performance pool would be applied for Nevada State College, as the sole institution within its tier. Finally, please clarify if there are instances contemplated in which 100 percent of the performance funding would not be awarded, and, if so, what is the recommended disposition of those General Fund dollars.

RESPONSE: Your understanding is correct – for the university and community college performance pools, funding will be allocated based on each institution's percent of the total weighted points. For those two pools 100 percent of the funds available for the respective pools will be distributed. In other words, it is not envisioned that any funds would be left unallocated in the university and community college pools.

Nevada State College is in a pool independently and will be allocated funds based on improvement in the total number of points. Should NSC not achieve at least the total weighted points from the prior year the percent difference will not be allocated. In other words, if they are 10 percent short in points from the prior year they will only receive 90 percent of the Performance Pool funds. The remaining 10 percent will carry over until the next year for a larger pool subject to distribution in that next year. NSC must make up for performance shortfalls from the prior year in the next year to earn 100 percent of the funding in the pool (including the funds carried forward).

On the general matter of implementation, the NSHE recommends that the Performance Pool be reviewed in at least 5 years. The purpose of the review will be to determine in any changes in the defined outcomes are necessary.

QUESTION 5

The Subcommittee requested that several scenarios be provided to better understand how performance funding would be distributed among the institutions. The Subcommittee requested four (4) scenarios, consisting of 5.0 percent, 10.0 percent, 15.0 percent and 20.0 percent of each institution's FY 2012 "base" General Fund appropriations as reflected in the NSHE's alternative funding formula model (later identified as "Schedule C") and as shown in the following table:

Institution	FY 2012 Legislatively Approved General Fund Appropriation	5.0% Performance Funding Carve-Out	10.0% Performance Funding Carve-Out	15.0% Performance Funding Carve-Out	20.0% Performance Funding Carve-Out
UNLV	\$ 123,898,221	\$ 6,194,911	\$ 12,389,822	\$ 18,584,733	\$ 24,779,644
UNR	\$ 92,294,710	\$ 4,614,736	\$ 9,229,471	\$ 13,844,207	\$ 18,458,942
NSC	\$ 9,111,439	\$ 455,572	\$ 911,144	\$ 1,366,716	\$ 1,822,288
CSN	\$ 77,587,864	\$ 3,879,393	\$ 7,758,786	\$ 11,638,180	\$ 15,517,573
GBC	\$ 14,031,554	\$ 701,578	\$ 1,403,155	\$ 2,104,733	\$ 2,806,311
TMCC	\$ 30,603,292	\$ 1,530,165	\$ 3,060,329	\$ 4,590,494	\$ 6,120,658
WNC	\$ 15,029,964	\$ 751,498	\$ 1,502,996	\$ 2,254,495	\$ 3,005,993
TOTAL	\$ 362,557,044	\$ 18,127,852	\$ 36,255,704	\$ 54,383,557	\$ 72,511,409

Utilizing Version #19 (assuming no change to either the outcome metrics, the weights, and the "Distribution of Points" percentages for each tier), for each of the four scenarios, please demonstrate the proposed distribution of performance funding to each institution as well as the net change in funding (received minus contributed) for each institution. For example,

	5.0% Carve-Out	Percentage Distribution of Points	Proposed Distribution	Change in Allocation
UNLV	\$6,194,911	58.8%	\$6,356,609	\$161,698
UNR	\$4,614,736	41.2%	\$4,453,038	(\$161,698)
TOTAL	\$10,809,647	100.0%	\$10,809,647	\$0

RESPONSE: See **Appendix B** for implementation scenarios at 5, 10, 15 and 20 percent utilizing General Fund appropriations as reflected in Schedule C of the NSHE alternative funding formula proposal.

QUESTION 6

The Subcommittee discussed the issue of including national benchmarks, such as graduation rates based upon “time to degree” as a part of the performance pool to be able to compare Nevada against other states as well as the national average. However, testimony was provided which indicated that either national benchmarks do not exist for the proposed outcome measures, or that the existing national benchmarks rely upon outdated definitions that may or may not be in transition, and therefore would not provide meaningful, timely comparisons. For each NSHE institution, utilizing the most current Integrated Postsecondary Education Data System (IPEDS) definition and data available, please provide the institutions’ graduation rates as compared to the national average for Bachelor’s and Associate’s degrees. To the extent possible, please also provide the institutions’ rates when calculated with the proposed, but not yet adopted, revised IPEDS “definition” of graduation rate.

RESPONSE: The following table provides the graduation rates at 150 and 200 percent time for each institution using the National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS) defined cohort of first-time, full-time, degree-seeking students and the proposed definition that includes part-time as well as full-time degree seeking students.

University and State College Graduation Rates – Undergraduate only				
	First-Time, Full-Time, Degree Seeking within 150% time (2004 cohort graduated by Aug. 2010)	First-Time, Full-Time, Degree Seeking within 200% time (2002 cohort graduated by Aug. 2010)	First-Time, Full-Time + <u>Part-Time</u> , Degree Seeking within 150% time (2004 cohort graduated by Aug. 2010)	First-Time, Full-Time + <u>Part-Time</u> , Degree Seeking within 200% time (2002 cohort graduated by August 2010)
UNR	49.3%	56.1%	48.8%	55.4%
UNLV	40.5%	47.7%	39.3%	46.0%
NSC	16.9%	13.3%	12.1%	12.2%

Community College Graduation Rates*				
	First-Time, Full-Time, Degree Seeking within 150% time	First-Time, Full-Time, Degree Seeking within 200% time	First-Time, Full-Time + <u>Part-Time</u> , Degree Seeking within 150% time	First-Time, Full-Time + <u>Part-Time</u> , Degree Seeking within 200% time
CSN	9.0%	8.7%	3.9%	4.2%
GBC	24.6%	28.6%	8.2%	8.0%
TMCC	16.7%	16.3%	8.2%	9.6%
WNC	11.8%	23.2%	5.9%	11.0%

*CSN, GBC and WNC utilize the same cohort as the 4-year institutions since they award bachelor’s degrees. TMCC’s cohort is 2007 for 150 percent time to degree and 2006 for 200 percent time to degree.

150 percent time is 6 years for a bachelor's degree, 3 years for an associate's degree, and 1 ½ years for a certificate. 200 percent time is 8 years for a bachelor's degree, 4 years for an associate's degree, and 2 years for a certificate.

Finally, as requested by the Subcommittee please indicate the nationally benchmarked performance metrics (either outcome or progress) that the NSHE can identify as potential measures of performance.

RESPONSE: The challenge with national benchmarks is finding a benchmark for the current year for which the Performance Pool includes an outcome. For example, IPEDS provides national data for graduation rates; however, that data is two years old. The 2009-10 graduation rates are the most recent rates available in IPEDS today. That is often the case with many of the IPEDS metrics. Because of these challenges, the National Governors Association does not recommend use of national benchmarks, particularly for graduation rates.

IPEDS has a data table library that includes several hundred tables on everything from enrollment and degrees and certificates awarded to staff and financial aid data. The challenge lies in identifying those that are appropriate for inclusion in a performance pool given the state's goal of graduating more students. Those tables can be viewed through the following Web link: http://nces.ed.gov/datalab/tableslibrary/searchresults.aspx?type=search&keywords=&datasource=IPEDS&releaseyear=0&ipeds=0&showlike=no&type_get=get

QUESTION 7

In reviewing the proposed performance metrics, the Subcommittee noted that no quality measures of performance were included. If the Chancellor's Office and/or the NGA Policy Academy Team have discussed specific measures of quality, please identify the measures discussed and provide an explanation as to why they are not included as part of the recommended measures.

RESPONSE: At this time there are no nationally recognized measures of quality. The NGA Policy Academy on Strengthening Postsecondary Accountability Systems, in which Nevada participated, resulted in the development of a number of performance metrics intended to measure progress towards the state's goal of graduating more students and graduating students for Nevada's "new" economy. The working group generally agreed to some quality metrics that since have been referred to the Chancellor's Quality Assessment Working Group, an ad hoc committee of faculty charged with recommending quality metrics.

At this time the Quality Assessment Working Group agreed with the work of the NGA Policy Academy in utilizing the following metrics for quality:

- Licensure pass rates for certain disciplines where available such as for nursing and engineering.
- Tracking NSHE graduates into the workforce as is required under Senate Bill 449 (Chapter 397, *Statutes of Nevada 2011*)

The challenge with licensure pass rates is that the data is not consistently available in a timely manner to be included in the Performance Pool metrics. For all of the defined outcomes in the Performance Pool, we selected outcomes where the data can be compiled within six months of the end of the fiscal/academic year. NSHE is in the process of compiling the data for an indicator on those graduates who are working in Nevada and working in an industry related to their degree following graduation. Unfortunately, at the time the Performance Pool was developed, that data was not available – nor is it available today. We expect to have it completed in time for the November Board of Regents meeting.

In addition, the Quality Assessment Working Group is recommending that all NSHE institutions adopt the Collegiate Learning Assessment (CLA). The CLA allows institutions to benchmark where they stand and how much progress their students have made relative to the progress of students at other colleges. At this time, use of the CLA is a recommendation of the working group only and has not yet been further considered by the institutions. The CLA, if adopted, will require a funding investment on the part of the institutions – approximately \$6,600 per year – for the administration of the assessment to a random sample of students in their freshman and senior years of college.

Further, the Quality Assessment Working Group is recommending use of the core learning outcome measure from the Voluntary System of Accountability (VSA) for the universities. That measure is intended to track improvement in students' abilities to think, reason, and write using certain agreed upon assessments. At this time UNR and UNLV are participants in the VSA. The VSA includes a measure of student learning outcomes over time so that the students, parents, and other stakeholders have access to comparable data on student learning outcomes over time. A similar system exists for community colleges, which the working group recommends, the Voluntary Framework of Accountability. However, at this time the VFA does not have a formal mechanism developed to assess student learning outcomes over time.

The CLA will provide the most appropriate mechanism for measuring institutional quality over time as it can be applied uniformly to all institutions in each Performance Pool and published on the institution's website. NSHE recommends considering the addition of CLA data when the Performance Pool is reviewed in five years (See Question 4 on implementation of the Performance Pool).

The Northwest Commission on Universities and Colleges (NWCCU), Nevada's regional accreditation agency, has recently strengthened its accreditation requirements to include detailed learning outcomes for all fields of study. These learning outcomes must be measured in a way that allows the results to be published and used to improve program performance. It is anticipated that this move on the part of NWCCU will provide an essential measure of quality for each NSHE institution, but the methods used will vary widely by institution and therefore do not provide data that can be used in the performance pool.

Finally, it should be noted that the NSHE will continue to publish a number of performance metrics, some agreed upon through the NGA Policy Academy and others in place prior to that, which will measure institutional and system progress toward achieving the state's goals. Those

will include metrics on quality and retention and persistence rates, college-continuation rates, remediation rates, etc. It is not possible to maintain the goal of simplicity within the Performance Pool and also to include every metric. Therefore, NSHE remains committed to public accountability in the publishing of additional performance metrics outside of the Performance Pool.

UNIVERSITY PERFORMANCE OUTCOMES AND POINTS (2010-11)

OUTCOMES	Weights	UNLV	UNLV Weighted Pts.	UNR	UNR Weighted Pts.	Total Weighted Points
Bachelor's Degrees	40%	3,771	1,508.4	2,412	964.8	2,473.2
Master's and Doctoral Degrees	10%	1,427	142.7	748	74.8	217.5
Sponsored/External Research Expenditures in \$100,000's	15%	497.3	74.6	937.6	140.6	215.2
Transfer Students w/a transferable associate's degree	5%	967	48.4	1,055	52.8	101.1
Efficiency - Awards per 100 FTE	10%	26.4	2.6	23.8	2.4	5.0
At Risk Graduates (minority and low income)	5%	2,218	110.9	770	38.5	149.4
Economic Development (STEM and Allied Health) Graduates	15%	857	128.6	1,009	151.4	279.9
TOTAL WEIGHTED POINTS	100%	--	2,016.1	--	1,425.2	3,441.4
DISTRIBUTION OF POINTS			58.6%		41.4%	100.0%

NSC PERFORMANCE OUTCOMES AND POINTS (2010-11)

OUTCOMES	Weights	NSC	NSC Weighted Pts.
Bachelor's Degrees	60%	262	157.2
At Risk Graduates (minority and low income)	5%	153	7.7
Gateway Course Completers	5%	831	41.6
Transfer Students w/a transferable associate's degree	5%	277	13.9
Efficiency - Awards per 100 FTE	10%	13.0	1.3
Economic Development (STEM and Allied Health) Graduates	15%	118	17.7
TOTAL WEIGHTED POINTS	100%	--	239.3

COMMUNITY COLLEGE OUTCOMES AND POINTS (2010-11)

OUTCOMES	Weights (except TMCC)	TMCC Weights	CSN	CSN Weighted Pts.	GBC	GBC Weighted Pts.	TMCC	TMCC Weighted Pts.	WNC	WNC Weighted Pts.	Total Weighted Points
1 to 2 Year Certificate	15%	15%	221	33.2	192	28.8	60	9.0	33	5.0	75.9
Workforce Recognized Certificates	TBD	TBD	--	--	--	--	--	--	--	--	--
Associate's Degrees	30%	35%	2,030	609.0	249	74.7	1,082	378.7	450	135.0	1,197.4
Bachelor's Degrees	5%	n/a	20	1.0	55	2.8	N/A	N/A	11	0.6	4.3
Transfer Students w/24 credits or associate's degree	10%	10%	2,439	243.9	35	3.5	1,332	133.2	189	18.9	399.5
Efficiency - Awards per 100 FTE	10%	10%	10.3	1.0	19.8	2.0	17.6	1.8	16.9	1.7	6.5
Gateway Course Completers	10%	10%	12,377	1237.7	1,050	105.0	4,064	406.4	1,530	153.0	1,902.1
At Risk Graduates (minority and low income)	5%	5%	1,367	68.4	205	10.3	688	34.4	290	14.5	127.5
Economic Development (STEM and Allied Health) Graduates	15%	15%	743	111.5	55	8.3	160	24.0	114	17.1	160.8
TOTAL WEIGHTED POINTS	100%	100%	--	2,305.6	--	235.2	--	987.5	--	345.7	3,874.0
DISTRIBUTION OF POINTS				59.5%		6.1%		25.5%		8.9%	100.0%

Outcome	Definitions
1 to 2 year Certificate	The total number of certificates requiring 30 or more credit hours granted during an academic year. Students earning multiple certificates in an academic year will have each earned certificate count as a separate outcome.
Workforce Recognized Certificates	The total number of certificates recognized by industry. This outcome is being developed as NSHE works with the institutions and national organizations to identify the appropriate workforce certificates in the category of less than one-year training.
Associate's Degrees	The total number of associate's degrees conferred during an academic year. Students earning multiple degrees in an academic year will have each earned degree count as a separate outcome.
Bachelor's Degrees	The total number of bachelor's degrees conferred during an academic year. Students earning multiple degrees in an academic year will have each earned degree count as a separate outcome.
Master's Degrees	The total number of master's degrees conferred during an academic year. Students earning multiple degrees in an academic year will have each earned degree count as a separate outcome.
Doctoral Degrees	The total number of doctoral degrees conferred during an academic year. First-professional degrees (medical, dental, law) are not included. Students earning multiple degrees in an academic year will have each earned degree count as a separate outcome.
At-Risk Graduates (minority and low income)	Total unduplicated number of minority or Pell grant eligible students who graduated during an academic year with a certificate, associate's or bachelor's degree.
Transfer Students w/a Transferable Associate's Degree	Total number of students transferred to a 4-year institution with a transferable associate's degree from an NSHE community college.
Transfer Students w/24 credits or Associate's Degree	The total number of students who enrolled at a four -year institution during the fall or spring semester of a given reporting year who had earned at least 24 credits or a transferable associate's degree at a community college prior to the reporting year. Students are excluded if they are co-enrolled at a 4-year institution and a 2-year institution during the term in which they otherwise would have been included as a transfer student. (Excludes courses from the 24 credit count if the grades are AU, AD, NR, ND, X, I, F, U, W.)
Efficiency - Awards per 100 FTE	The number of bachelor's, master's and doctoral awards per 100 FTE at 4-year institutions and the number of certificates, associate's and bachelor's (where applicable) per 100 FTE at the 2-year institutions.
Sponsored/External Research Expenditures	The total amount expended on sponsored programs/projects of research and other scholarly activities for the fiscal year. This amount includes federal, federal pass-through, State of Nevada, other state and local government, private for-profit, private non-profit. Other scholarly activity includes the instructional, public service, student services, and "other" functional grant categories, including workforce development. The figures exclude the scholarship/fellowship category.
Gateway Course Completers	The total number of students (unduplicated) who successfully completed a college-level English or mathematics course (grad C- and above) in the reporting year.
STEM and Allied Health Graduates	Total number of certificates, associate's, bachelor's, master's, or doctoral degrees awarded (first professional awards are excluded) in an academic year based on CIP codes for STEM and health professionals as identified by NCHEMS for the NGA metrics. (CIPs: 4 - architecture and related services; 11 - computer and information sciences and support services; 14 - engineering; 15 - engineering technologies/technicians; 26 - biological and biomedical sciences; 27 - mathematics and statistics; 40 - physical sciences; 41 - science technologies/technicians; and 51 - health professions and related clinical sciences)

APPENDIX B

Nevada System of Higher Education Comparison of carve-out and performance pool allocation Using formula funding proposal 'attachment C' and performance pool version 19 Universities

	Formula Proposal Allocation of General Fund	Percent of Funds	Carve Out Amounts				Performance	
			5%	10%	15%	20%	Pool Weighted Points	Pool
UNR	\$ 91,029,780	41.73%	\$ 4,551,489	\$ 9,102,978	\$ 13,654,467	\$ 18,205,956	1461.4	41.19%
UNLV	\$ 127,096,200	58.27%	\$ 6,354,810	\$ 12,709,620	\$ 19,064,430	\$ 25,419,240	2086.2	58.81%
Total	\$ 218,125,980		\$ 10,906,299	\$ 21,812,598	\$ 32,718,897	\$ 43,625,196	3,547.6	
5%								
UNR	\$ 4,551,489	\$ 4,492,746	\$ (58,743)					
UNLV	\$ 6,354,810	\$ 6,413,553	\$ 58,743					
10%								
UNR	\$ 9,102,978	\$ 8,985,492	\$ (117,486)					
UNLV	\$ 12,709,620	\$ 12,827,106	\$ 117,486					
15%								
UNR	\$ 13,654,467	\$ 13,478,238	\$ (176,229)					
UNLV	\$ 19,064,430	\$ 19,240,659	\$ 176,229					
20%								
UNR	\$ 18,205,956	\$ 17,970,984	\$ (234,972)					
UNLV	\$ 25,419,240	\$ 25,654,212	\$ 234,972					

APPENDIX B

Nevada System of Higher Education
Comparison of carve-out and performance pool allocation
Using formula funding proposal 'attachment C' and performance pool version 20
Universities

	Formula Proposal Allocation of General Fund	Percent of Funds	Carve Out Amounts				Performance Pool Weighted Points	Percent of Pool
			5%	10%	15%	20%		
UNR	\$ 91,029,780	41.73%	\$ 4,551,489	\$ 9,102,978	\$ 13,654,467	\$ 18,205,956	1425.2	41.41%
UNLV	\$ 127,096,200	58.27%	\$ 6,354,810	\$ 12,709,620	\$ 19,064,430	\$ 25,419,240	2016.1	58.59%
Total	\$ 218,125,980		\$ 10,906,299	\$ 21,812,598	\$ 32,718,897	\$ 43,625,196	3,441.3	
5%								
UNR	\$ 4,551,489	\$ 4,516,798	\$ 34,691)					
UNLV	\$ 6,354,810	\$ 6,389,501	\$ 34,691					
10%								
UNR	\$ 9,102,978	\$ 9,033,596	\$ (69,382)					
UNLV	\$ 12,709,620	\$ 12,779,002	\$ 69,382					
15%								
UNR	\$ 13,654,467	\$ 13,550,394	\$ (104,073)					
UNLV	\$ 19,064,430	\$ 19,168,503	\$ 104,073					
20%								
UNR	\$ 18,205,956	\$ 18,067,192	\$ (138,764)					
UNLV	\$ 25,419,240	\$ 25,558,004	\$ 138,764					

APPENDIX B

Nevada System of Higher Education Comparison of carve-out and performance pool allocation Using formula funding proposal 'attachment C' and performance pool version 19 Community Colleges

	Formula Proposal Allocation of General Fund	Percent of Funds	Carve Out Amounts				Performance Pool Weighted Points	Percent of Pool
			5%	10%	15%	20%		
CSN	\$ 84,621,933	63.97%	\$ 4,231,097	\$ 8,462,193	\$ 12,693,290	\$ 16,924,387	1,347.4	53.11%
GBC	\$ 9,465,394	7.15%	\$ 473,270	\$ 946,539	\$ 1,419,809	\$ 1,893,079	169.2	6.67%
TMCC	\$ 27,718,921	20.95%	\$ 1,385,946	\$ 2,771,892	\$ 4,157,838	\$ 5,543,784	753.6	29.71%
WNC	\$ 10,485,236	7.93%	\$ 524,262	\$ 1,048,524	\$ 1,572,785	\$ 2,097,047	266.7	10.51%
Total	\$ 132,291,484		\$ 6,614,574	\$ 13,229,148	\$ 19,843,723	\$ 26,458,297	2,536.9	

	Carve-out	Allocation	Difference
5%			
CSN	\$ 4,231,097	\$ 3,513,137	\$ (717,960)
GBC	\$ 473,270	\$ 441,163	\$ (32,107)
TMCC	\$ 1,385,946	\$ 1,964,895	\$ 578,949
WNC	\$ 524,262	\$ 695,379	\$ 171,117
10%			
CSN	\$ 8,462,193	\$ 7,026,274	\$ (1,435,919)
GBC	\$ 946,539	\$ 882,326	\$ (64,214)
TMCC	\$ 2,771,892	\$ 3,929,791	\$ 1,157,899
WNC	\$ 1,048,524	\$ 1,390,758	\$ 342,234
15%			
CSN	\$ 12,693,290	\$ 10,539,411	\$ (2,153,879)
GBC	\$ 1,419,809	\$ 1,323,488	\$ (96,321)
TMCC	\$ 4,157,838	\$ 5,894,686	\$ 1,736,848
WNC	\$ 1,572,785	\$ 2,086,137	\$ 513,352
20%			
CSN	\$ 16,924,387	\$ 14,052,548	\$ (2,871,839)
GBC	\$ 1,893,079	\$ 1,764,651	\$ (128,428)
TMCC	\$ 5,543,784	\$ 7,859,582	\$ 2,315,797
WNC	\$ 2,097,047	\$ 2,781,516	\$ 684,469

APPENDIX B

Nevada System of Higher Education
Comparison of carve-out and performance pool allocation
Using formula funding proposal 'attachment C' and performance pool version 20
Community Colleges

	Formula Proposal Allocation of General Fund	Percent of Funds	Carve Out Amounts				Performance Pool Weighted Points	Percent of Pool
			5%	10%	15%	20%		
CSN	\$ 84,621,933	63.97%	\$ 4,231,097	\$ 8,462,193	\$ 12,693,290	\$ 16,924,387	2,305.6	59.51%
GBC	\$ 9,465,394	7.15%	\$ 473,270	\$ 946,539	\$ 1,419,809	\$ 1,893,079	235.2	6.07%
TMCC	\$ 27,718,921	20.95%	\$ 1,385,946	\$ 2,771,892	\$ 4,157,838	\$ 5,543,784	987.5	25.49%
WNC	\$ 10,485,236	7.93%	\$ 524,262	\$ 1,048,524	\$ 1,572,785	\$ 2,097,047	345.7	8.92%
Total	\$ 132,291,484		\$ 6,614,574	\$ 13,229,148	\$ 19,843,723	\$ 26,458,297	3,874.0	

	Carve-out	Allocation	Difference
5%			
CSN	\$ 4,231,097	\$ 3,936,645	\$ (294,452)
GBC	\$ 473,270	\$ 401,587	\$ (71,683)
TMCC	\$ 1,385,946	\$ 1,686,085	\$ 300,139
WNC	\$ 524,262	\$ 590,258	\$ 65,996
10%			
CSN	\$ 8,462,193	\$ 7,873,290	\$ (588,904)
GBC	\$ 946,539	\$ 803,174	\$ (143,365)
TMCC	\$ 2,771,892	\$ 3,372,169	\$ 600,277
WNC	\$ 1,048,524	\$ 1,180,515	\$ 131,992
15%			
CSN	\$ 12,693,290	\$ 11,809,935	\$ (883,355)
GBC	\$ 1,419,809	\$ 1,204,761	\$ (215,048)
TMCC	\$ 4,157,838	\$ 5,058,254	\$ 900,416
WNC	\$ 1,572,785	\$ 1,770,773	\$ 197,988
20%			
CSN	\$ 16,924,387	\$ 15,746,580	\$ (1,177,807)
GBC	\$ 1,893,079	\$ 1,606,348	\$ (286,731)
TMCC	\$ 5,543,784	\$ 6,744,339	\$ 1,200,554
WNC	\$ 2,097,047	\$ 2,361,031	\$ 263,984

**COMMITTEE TO STUDY THE FUNDING OF HIGHER EDUCATION'S
COMMUNITY COLLEGE FUNDING SUBCOMMITTEE**
(SENATE BILL 374, 2011 LEGISLATURE)

WORK SESSION

August 16, 2012

As Subcommittee members are aware, each Subcommittee was tasked with reviewing key areas pertaining to the funding of higher education in Nevada and forwarding recommendations for the Committee's consideration at its final meeting on Wednesday, August 29, 2012. At its July 27, 2012, meeting the Community College Funding Subcommittee reviewed and discussed issues related to the funding of the Nevada System of Higher Education's (NSHE) community colleges. The major areas listed and discussed below represent areas for which the Subcommittee may wish to consider making recommendations. Additionally, when formulating recommendations, members may wish to consider recommendations which are time specific and contain a recommendation that a particular area or issue be reexamined, as determined appropriate, by the Legislature at some future point.

Major Community College Funding-Related Areas Reviewed

1. Current and Proposed Funding of the Community Colleges
2. Federal and Non-Federal Grant Funding Opportunities
3. Funding of Community Colleges Through County, City and District Level Mechanisms
4. Community Colleges' Access Mission and Alignment with Economic and Workforce Development

1. Current and Proposed Funding of the Community Colleges

Summary of Area: At its July 27, 2012, meeting the Subcommittee received information on each institution's FY 2012 budgeted operating revenues and expenditures as approved by the Board of Regents. The budgeted revenues and expenditures reflected the institutions' state-supported and self-supporting operating budgets. State General Fund appropriations approved by the 2011 Legislature, student credit-hour registration fees, non-resident tuition charges and miscellaneous student fees represented each institution's primary sources of budgeted revenues. According to the information provided, the instructional and institutional support functional areas were budgeted to be the largest and second largest expenditure areas, respectively. Additionally, for FY 2012, the institutions were budgeted to expend lesser, but approximately equal amounts on academic support, student services, institutional support and operations and maintenance of the physical plant. A copy of the FY 2012 revenue and expenditure table is included as Attachment A

The Subcommittee also reviewed and discussed the funding the community colleges would receive under the alternative formula model as proposed by the Chancellor's Office. The Subcommittee was interested in reviewing the per-student funding each institution had previously received and how that would change under the proposed funding formula. In reviewing and discussing the funding information, the Subcommittee

requested additional information be provided. The following section identifies the information requested and the responses provided by the Chancellor's Office.

- a. Clarification as to whether the NSHE institutions currently or previously received dedicated General Fund appropriations in ongoing support of capital improvements.

The NSHE has provided a response to the Subcommittee's question under Question #1 on page 1 of the NSHE's response document entitled "Responses to LCB August 1, 2012 Questions." The response indicates that institutions do not receive dedicated General Fund appropriations for capital improvements. The Fiscal Analysis Division would note for the Subcommittee that the NSHE institutions, including the community colleges, biennially receive \$15.0 million in Higher Education Capital Construction (HECC)/Special Higher Education Capital Construction (SHECC) funding for deferred maintenance purposes funded from the annual excise tax on slot machines pursuant to NRS 463.385. The funds are approved through the biennial capital improvement budget process approved by the Legislature.

- b. Clarification as to whether NSHE institutions receive revenues from mineral rights and, if so, the budgeted expenditures supported by the revenues.

The NSHE indicates that only the University of Nevada, Reno (UNR) annually receives approximately \$90,000 in mineral rights payments that are used to support non-General Fund allowable costs. The NSHE's response is under Question #2 on Page 1 of the response document.

- c. Clarification on the types of revenues contained within the "Miscellaneous" revenue line shown on Attachment A.

The Chancellor's Office indicates that miscellaneous revenues include international program fees, loan repayments, rent and lease payments and bonding proceeds. The NSHE's response is under Question #3 on page 1 of the response document.

- d. Clarification of the Small College Factor proposed for Great Basin College (GBC) and Western Nevada College (WNC) as part of the alternative funding formula recommended by the Chancellor's Office.

As clarified under Question #9, on page 7 of the NSHE's response document, the purpose of Small College Factor is to provide additional General Fund appropriations to GBC and WNC to fund costs associated with the colleges' administrative infrastructure.

As proposed by the NSHE, additional General Fund appropriations are recommended for GBC and WNC to address an economy of scale funding issue. The NSHE indicates "every institution has a base amount of fixed administrative costs that exist regardless of student body size, and small community colleges do not have sufficient student credit hours to cover this overhead cost and

provide instruction.” The NSHE proposal provides additional base funding of \$1.5 million to GBC and WNC at $\leq 50,000$ weighted credit hours which decreases (by approximately \$32.00 per weighted credit hour beginning at 50,001 credit hours) as each institution’s student credit hours increase. At 100,000 weighted student credit hours, institutions would not receive additional funding. General Fund appropriations decrease based upon the expected increase in student-derived revenues resulting from increased credit hours taken.

The existing, but suspended funding formula also provided economies of scale-adjusted funding at GBC and WNC by utilizing enhanced student-to-faculty ratios and different institutional support factors than at CSN and TMCC. Additionally, compared to the College of Southern Nevada (CSN), Truckee Meadows Community College (TMCC) and WNC, different academic support and student support services factors were approved for GBC.

- e. The Subcommittee requested information on the annual General Fund appropriation expenditures per full-time student equivalent for Fiscal Years 2009 through 2012 as well as the annual expenditures per full-time student equivalent when based upon all revenues (General Fund, student registration fees, non-resident tuition and miscellaneous student fees). Additionally, projected annual General Fund expenditures per full-time equivalent student were requested based upon the proposed funding formula.

The NSHE’s response is under Question #11 on page 8 and Appendix D of the response document. Three tables are provided which demonstrate the funding provided for each year based upon annual average full-time equivalent student (AAFTE) enrollments for General Fund appropriations alone (first table), for total revenues (second table) and for the General Fund appropriation calculated under the proposed funding formula using FY 2012 enrollments.

As previously noted, each Subcommittee was tasked with reviewing key areas pertaining to the funding of higher education in Nevada and forwarding recommendations for the full Committee’s consideration. The Subcommittee’s recommendations can be as broad or narrow as the Subcommittee determines appropriate.

Based upon the Subcommittee’s discussions as well as the supplemental information provided by the Chancellor’s Office, does the Subcommittee wish to make a recommendation(s) to the full Committee with regard to the current or proposed funding of the NSHE’s community colleges?

2. Federal and Non-Federal Grant Funding Opportunities

Summary of Area: After reviewing the community colleges’ state supported and self-funded operating budgets, the Subcommittee discussed the institutions’ current grant funding as well as grant funding opportunities, including funding under the federal Hispanic-Serving Institution (HSI) designation. The Subcommittee requested additional clarification on several points. These were:

- a. The Subcommittee requested clarification on the amount of grant funding directly received by the community colleges in FY 2012 which was otherwise excluded from the budgeted operating revenue and expenditure amounts provided to the Subcommittee (Attachment A).

The NSHE indicates that for FY 2011, for the four institutions, sponsored projects (grant) revenues totaled \$88.63 million. According to the information provided, FY 2011 grant expenditures totaled \$82.31 million. The largest revenue (federal) and expenditure (Scholarships and Fellowships) is student financial aid. The NSHE's response is under Question #8 on page 6 of the response document entitled "Responses to LCB August 1, 2012 Questions."

- b. In discussing grant funding, the Subcommittee requested information on the specific grant funding the Nevada System of Higher Education institutions receive because the University of Nevada is a designated land-grant institution.

The Chancellor's Office indicates that only UNR such funding. According to the Chancellor's Office, UNR received Land Grant-related grant funding in FY 2012, which totaled \$3.28 million. The NSHE's response is under Question #12 on page 9 and Appendix E of the response document.

- c. The Subcommittee requested additional information on the federal Hispanic-Serving Institution (HSI) designation process.

The NSHE's response is under Question #7 on page 5 and under Appendix B of the response document. The additional information on the HSI designation process referenced as having been provided to the full Committee in a prior response from the Chancellor's Office is provided as Attachment B.

Based upon the Subcommittee's discussions as well as the supplemental information provided by the Chancellor's Office, does the Subcommittee wish to make a recommendation(s) to the full Committee with regard to grants and associated funding obtained by the NSHE's community colleges?

3. Funding of Community Colleges Through County, City and District Level Mechanisms

Summary of Area: The Subcommittee reviewed available historical and current information on the funding of community colleges in other states. Information was provided from the State Higher Education Executive Officer's FY 2011 Annual Report on State Higher Education Finance and a 2000 report by the Education Commission of the States on State Funding for Community Colleges: A 50-State Survey. The Subcommittee discussed the interrelationship between higher education funding and governance as it pertained to community colleges and local funding sources, notably property tax revenues in other states. The Subcommittee also noted the funding challenges faced by Nevada's counties and cities and received written testimony from

the Nevada Association of Counties and verbal testimony on behalf of Barrick Gold Corporation. The Subcommittee did not specifically request any follow-up information.

Does the Subcommittee wish to make a recommendation(s) to the full Committee with regard to local funding of Nevada's community colleges?

4. Community Colleges' Access Mission and Alignment with Economic and Workforce Development

Summary of Area: The Subcommittee reviewed and discussed information related to the community colleges access and workforce development missions. The Subcommittee also discussed the proposed performance funding pool. The Subcommittee requested additional clarification on several points. These were:

- a. The Subcommittee requested information on the number of dual credit/enrollment courses offered by the NSHE institutions in FY 2012.

The Chancellor's Office has provided the requested information under Question #5 on page 3 of the response document. As detailed in the response, 562 dual credit courses were provided in FY 2012 that had 1,909 high school students enrolled. As is shown in the response, dual credit course and enrollments were generally greatest at the four community colleges compared to the state college and the universities. Among the community colleges, the greatest number of dual credit enrollments was at the CSN, TMCC, GBC and WNC, respectively.

Information is also provided in the response document indicating an additional 1,118 high school students were enrolled in a course at an NSHE institution in FY 2012 that was not a dual credit/enrollment course. The largest numbers of students were enrolled at GBC, CSN and UNR, respectively.

- b. The Subcommittee requested clarification on the NSHE's policy and institutions' practices with regard to students who matriculate with an Individualized Education Plan (IEP).

The Chancellor's Office has provided clarifying information under Question #4 on page 2 of the response document.

- c. The Subcommittee requested information on the current membership of Nevada's P-16 Advisory Council.

Information on the Council's current membership is attached as Attachment C.

- d. The Subcommittee requested a copy of the final report and recommendations of the Chancellor's Ad Hoc Committee on Access and Affordability.

The report is referenced under Question #6 on page 5 of the response. The report is provided under Appendix A of the response.

- e. In discussing the performance funding pool proposed by the Governor's Office and the Chancellor's Office, the Subcommittee was interested in understanding the performance measures for the community colleges and whether the measures reflected the colleges' missions.

As proposed in Version #20 of the performance pool, the metrics and policy weights by which the colleges' performance would be measured are:

OUTCOMES	Weights (except TMCC)	TMCC Weights
1 to 2 Year Certificate	15%	15%
Workforce Recognized Certificates	TBD	TBD
Associate's Degrees	30%	35%
Bachelor's Degrees	5%	n/a
Transfer Students w/24 credits or associate's degree	10%	10%
Efficiency - Awards per 100 FTE	10%	10%
Gateway Course Completers	10%	10%
At Risk Graduates (minority and low income)	5%	5%
Economic Dev. (STEM and Allied Health) Graduates	15%	15%
TOTAL WEIGHTED POINTS	100%	100%
DISTRIBUTION OF POINTS		

The Chancellor's Office has provided the Subcommittee with versions #19 and #20, with Version #20 representing the latest proposed iteration. These are included under Appendix C. The Fiscal Analysis Division provides the following additional clarification about the proposed Performance Pool.

As proposed, and reflected in Version #20 three independent tiers are proposed. The four colleges are grouped into one tier. Within each tier, the assigned institutions would be measured against the specific progress and outcome metrics. As proposed by the Governor's Office and the Chancellor's Office, each performance metric would be weighted to reflect its relative value within the tier's pool. The weighting is intended to reflect a policy priority. An institution's output for a particular performance metric is then multiplied by the policy weighting to determine a weighted point value. The institution's point values are then summed to generate total weighted points. Each institution's total weighted points are divided by the tier's (all institutions) total weighted points to derive a percentage for each institution that is reflected as a "Distribution of Points" percentage. This "points percentage" is then applied to the tier's funding pool, with the available funding distributed among institutions based upon the points percentage.

As envisioned, institutions will compete against each other (within the respective tier) based upon points awarded for comparative performance i.e. how did one institution do compared to another on a particular metric for a particular fiscal

year. It appears the proposed model does not specifically include incentivizing institutions for individual year-over-year improvement.

Finally, funding for the pool is also based upon the tier structure. If funded from each institution's base appropriation (with tier participants "contributing" the assigned percentage or amount) based upon its performance, an institution may receive more or less than it contributed. If funded from new appropriations, the available funds would also be distributed based upon the calculated "points percentages."

Staff would note for the Subcommittee that the Performance Pool, Economic and Workforce Development, and Research Subcommittee is scheduled to meet on Wednesday, August 15, 2012, to review and adopt recommendations pertaining to the issue of performance funding.

Based upon the Subcommittee's discussions as well as the supplemental information provided by the Chancellor's Office, does the Subcommittee wish to make a recommendation(s) to the full Committee with regard to the community colleges' access mission and alignment with economic and workforce development?

Based upon the Subcommittee's actions, staff will prepare a report containing the recommendation for the full Committee's consideration at the final meeting on Wednesday, August 29, 2012.

**NSHE Community Colleges Fiscal Year 2012 Budgeted Revenues and Expenditures
Board of Regents Approved State Supported Operating Budgets and Non-State Self-Supporting Budgets**

	College of Southern Nevada			Great Basin College			Truckee Meadows Community College			Western Nevada College		
	State Budgets	Non-State Budgets	Total	State Budgets	Non-State Budgets	Total	State Budgets	Non-State Budgets	Total	State Budgets	Non-State Budgets	Total
REVENUES												
Opening Account Balance		\$ 8,582,261	\$ 8,582,261		\$ 2,718,835	\$ 2,718,835		\$ 7,166,204	\$ 7,166,204		\$ 2,268,802	\$ 2,268,802
General Funds	\$ 77,587,864		\$ 77,587,864	\$ 14,031,554		\$ 14,031,554	\$ 30,603,292		\$ 30,603,292	\$ 15,029,964		\$ 15,029,964
Student Fees	\$ 45,985,789	\$ 10,430,619	\$ 56,416,408	\$ 3,754,865	\$ 2,011,739	\$ 5,766,604	\$ 13,524,665	\$ 5,816,726	\$ 19,341,391	\$ 5,479,712	\$ 1,885,041	\$ 7,364,753
Investment/Endowment	\$ 299,472		\$ 299,472	\$ 20,697	\$ 25,000	\$ 45,697	\$ 106,386		\$ 106,386	\$ 50,547		\$ 50,547
Sales & Services		\$ 2,605,554	\$ 2,605,554		\$ 898,489	\$ 898,489		\$ 1,471,452	\$ 1,471,452		\$ 971,920	\$ 971,920
Indirect Cost Recovery		\$ 24,764	\$ 24,764		\$ 55,872	\$ 55,872		\$ 719,691	\$ 719,691		\$ 120,000	\$ 120,000
Miscellaneous		\$ 14,502,682	\$ 14,502,682		\$ 188,259	\$ 188,259		\$ 322,090	\$ 322,090		\$ 673,724	\$ 673,724
Total Revenues	\$ 123,873,125	\$ 36,145,880	\$ 160,019,005	\$ 17,807,116	\$ 5,898,194	\$ 23,705,310	\$ 44,234,343	\$ 15,496,163	\$ 59,730,506	\$ 20,560,223	\$ 5,919,487	\$ 26,479,710
EXPENDITURES												
Instruction	\$ 70,596,687	\$ 20,130,951	\$ 90,727,638	\$ 8,240,481	\$ 1,410,734	\$ 9,651,215	\$ 24,351,090	\$ 5,404,390	\$ 29,755,480	\$ 7,987,637	\$ 1,130,317	\$ 9,117,954
Public Service	\$ 81,518		\$ 81,518	\$ 2,262,847	\$ 1,193,683	\$ 3,456,530	\$ 3,791,189	\$ 2,901,869	\$ 6,693,058	\$ 1,702,738		\$ 1,702,738
Academic Support	\$ 12,417,629	\$ 3,141,529	\$ 15,559,158	\$ 1,708,270	\$ 88,837	\$ 1,797,107	\$ 4,328,086	\$ 1,837,721	\$ 6,165,807	\$ 2,486,846	\$ 943,052	\$ 3,429,898
Student Services	\$ 13,868,402	\$ 3,737,727	\$ 17,606,129	\$ 2,711,051	\$ 1,532,786	\$ 4,243,837	\$ 7,571,185	\$ 3,346,414	\$ 10,917,599	\$ 4,789,932	\$ 3,056,197	\$ 7,846,129
Institutional Support	\$ 17,382,795	\$ 2,498,479	\$ 19,881,274	\$ 4,088,678		\$ 4,088,678	\$ 6,664,547	\$ 144,500	\$ 6,809,047	\$ 3,726,287		\$ 3,726,287
Operations & Maintenance	\$ 16,186,333	\$ 681,900	\$ 16,868,233	\$ 1,717,81	\$ 358,626	\$ 530,407	\$ 696,703	\$ 246,000	\$ 942,703	\$ 87,660		\$ 87,660
Scholarships	\$ 2,109,683	\$ 5,120,161	\$ 7,229,844		\$ 1,242,760	\$ 1,242,760		\$ 1,615,269	\$ 1,615,269			
Auxiliary Enterprises		\$ 835,133	\$ 835,133									
Reserves	\$ (8,769,922)		\$ (8,769,922)	\$ (1,375,992)		\$ (1,375,992)	\$ (3,168,457)		\$ (3,168,457)	\$ (220,877)		\$ (220,877)
Total Expenditures	\$ 123,873,125	\$ 36,145,880	\$ 160,019,005	\$ 17,807,116	\$ 5,898,194	\$ 23,705,310	\$ 44,234,343	\$ 15,496,163	\$ 59,730,506	\$ 20,560,223	\$ 5,919,487	\$ 26,479,710

Note: Excluded from the Self-Supporting budget reporting process are grants & contracts, plant, endowment, and student loan funds.

Provided by NSHE Chancellor's Office (July 25, 2012)

	A/B Contract Faculty		Adjunct F/T or P/T		Grad Asst/ Post Doc		Other	
	Count of 100/200-level Sections Taught*	Percent of Total Sections Taught by A/B Contract Faculty	Count of 100/200-level Sections Taught*	Percent of Total Sections Taught by Adjunct F/T or P/T	Count of 100/200-level Sections Taught*	Percent of Total Sections Taught by Grad Asst/ Post Doc	Count of 100/200-level Sections Taught*	Percent of Total Sections Taught by Other
CSN	2,067	50.9%	1,994	49.1%				
GBC	279	60.1%	185	39.9%				
TMCC	647	50.9%	624	49.1%				
WNC	262	48.3%	281	51.7%				
NSC	43	23.2%	142	76.8%				
UNLV	479	35.6%	592	44.0%	273	20.3%		
UNR	529	58.6%	267	29.6%	84	9.3%	22	2.4%

*State-funded sections included in the taxonomy. Excludes labs and remedial courses

2. *Hispanic Serving Institution (HSI) Designation at NSHE Institutions:*

For each of the NSHE's teaching institutions, please clarify its current and/or pending federal designation status (as Title III, Title V, and HSI) for purposes of attaining federal Hispanic Serving Institution designation as well as being eligible for these types of federal funding. Additionally, during the committee's discussion of the reported drop in Hispanic student enrollments at the College of Southern Nevada (CSN), it was indicated that CSN's 'qualifying enrollments' dropped from above 25 percent to 24.1 percent in 2010. Please clarify the actual percentage for 2009 (as it appears that the 24.1 percent relates to 2010) and the actual number of students represented by the +/- 1.0 percent decrease at CSN. Finally, if more current Hispanic student enrollment data are available for each institution, please provide that data.

Response: Through the Higher Education Act of 1965, reauthorized in 2008, under Title III and Title V, institutions that serve large underrepresented populations and low income students are eligible to be designated as a Minority Serving Institution based on enrollment criteria. Once designated as a Minority Serving Institution, these institutions are eligible to apply for competitive grants to strengthen the academic and student services infrastructure.

Excerpt from NSHE July 18, 2012, Responses to LCB Questions

In the last 24 months, two NSHE institutions (NSC and UNLV) applied for and received a Title III/V designation. The designation is year to year unless an institution has a grant under one of the Titles, in which case it is assumed the designation is for the entire grant period.

Federal designation by institution:

Institution*	Title III	Title V	HSI
CSN	Not designated	Not designated	Not designated
TMCC	Not designated	Not designated	Not designated
WNC	Not designated	Not designated	Not designated
NSC	Designated – FY 13	Designated – FY 13	Not designated
UNLV	Designated – FY 11	Designated – FY 11	Not designated

*Note: UNR and GBC are not classified as emerging institutions as their Latino population is below 15%.

As a clarification, the 24.1% at CSN represented FTE in FY 10. CSN has not met the 25% threshold for FTE to date. FY 09 FTE was 23.2%. One percent of enrollments at CSN represents approximately 204 FTE.

In response to the question regarding updated Hispanic student enrollment, please see the following chart for fall 2011 FTE.

Percent of Total undergraduate FTE generated by Hispanic Students

	FTE Fall 2011
CSN	21.8%
GBC	14.3%
TMCC	19.8%
WNC	15.5%
NSC	20.0%
UNLV	18.8%
UNR	11.4%

3. Inclusion of Student Revenues in Representation of General Fund Appropriation Distribution:

The Committee questioned whether the table, Appendix C, prepared as part of the Chancellor's Office's A New Model for Funding Higher Education in Nevada also reflected the registration fee and non-resident tuition revenues collected by the institutions. The committee requested that Appendix C be updated to reflect those revenues in order to better understand the overall funding of each institution. For purposes of displaying the registration fee revenues, if only the portion of registration fee revenues allocated to the state-supported operating budgets is displayed, please include a note indicating, by institution, the registration fee revenue amount budgeted outside of the state-supported operating budgets.

Response: Please see the spreadsheet attached at the end of this memo which includes the requested information.

COUNCIL | MEETINGS

Council

2011 P-16 ADVISORY COUNCIL MEMBERS

Per NRS 400.030 Section 1 - The P-16 Advisory Council, consisting of 11 voting members, is hereby created to assist in the coordination between elementary, secondary and higher education in this State. The Chancellor of the System and the Superintendent of Public Instruction serve as ex officio nonvoting members of the Council.

Governor Appointments

NRS 400.030 Sec 2 - The Governor shall appoint five members to the Council.

Bret Whipple

Higher Education Representative

Erin Cranor

Elementary and Secondary Education Representative

Caryn Swobe

Private Business Representative

Stacy M. Woodbury, MPA

Parent Representative

John LaGatta

Private Business Representative

Legislature Appointments

Per NRS 400.030 Section 3 - The Majority Leader of the Senate and the Speaker of the Assembly shall each appoint two members to the Council. and Per NRS 400.030 Section 4 - The Minority Leader of the Senate and the Minority Leader of the Assembly shall each appoint one member to the Council who is a member of the general public.

Senator Joseph P. (Joe) Hardy, M.D.

Senate Representative

Assemblywomen Lucy Flores

Assembly Representative

Cedric Crear

Higher Education Representative

Sue Daellenbach

Elementary and Secondary Education Representative

Linda Johnson

Member of the General Public

Senator Barbara Cegavske

Member of the General Public

Ex officio nonvoting members

Per NRS 400.030 Section 1 - The Chancellor of the System and the Superintendent of Public Instruction serve as ex officio nonvoting members of the Council.

Dan Klaich

Chancellor of the Nevada System of Higher Education

Keith Rheault

Superintendent of Public Instruction

NEVADA SYSTEM OF HIGHER EDUCATION

Responses to LCB August 1, 2012 Questions

From the Committee to Study the Funding of Higher Education's Community
College Subcommittee



System Administration • University of Nevada, Reno • University of Nevada, Las Vegas • College of Southern Nevada • Great Basin College •
Truckee Meadows Community College • Western Nevada College • Desert Research Institute • Nevada State College

NEVADA SYSTEM OF HIGHER EDUCATION

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Nevada State College

Document Prepared by the Finance Department
Office of the Chancellor

Nevada System of Higher Education responses to Legislative Counsel Bureau request for information dated August 01, 2012.

QUESTION 1

Excluding funding for operations and maintenance (O&M) as well as funding for capital improvements through the state's biennial Capital Improvement Program process, please clarify whether the Nevada System of Higher Education (NSHE) in general and any of the NSHE institutions in particular either currently receive or have previously received dedicated General Fund appropriations in ongoing support of capital improvements.

No NSHE institutions currently receive or have previously received funding in this category.

QUESTION 2

Please clarify whether any of the NSHE institutions in FY 2012 received revenues or payments generated from mineral rights either owned by the institution(s) or from mineral rights for which royalties are otherwise dedicated, in part or whole, to an NSHE institution(s). If so, please provide a breakdown, by institution, on the amount of revenues received in FY 2012 as well as the purpose(s) for which the revenues were used.

UNR received mineral right payments totaling \$94,072 for Fiscal Year 2011-12. This payment is associated with owned property located within the Carlin Trend. Mineral rights payments received by UNR have been consistently in this range, averaging just under \$90,000 for the past five years. These funds are currently budgeted in self supporting accounts and used to pay hosting expenses and other non-state expenses for which state funds are not available or eligible.

No other NSHE institution received revenues or payments from mineral rights.

QUESTION 3

For FY 2012, please provide a breakdown of the revenues shown as "Miscellaneous" in the NSHE Community Colleges Fiscal Year 2012 Budgeted Revenues and Expenditures table detailing each institution's state-supported and self-supporting operating budgets.

The miscellaneous revenues displayed in the table for the community colleges self-supporting budgets, consisted of transfers in from other accounts, gifts, and revenues coded as miscellaneous i.e., worker compensation funds for environmental health & safety programs, toxicology testing fees and administration cost allowance for administering the Pell program.

In general miscellaneous revenues include all sources of current fund revenue not included in other classifications. Examples are international program fees, loan repayments, rent and lease payments, and bonding proceeds.

QUESTION 4

Please clarify the process followed when a student with an open/active Individualized Education Plan (IEP) matriculates at an NSHE institution. Will the institution accept the student's current IEP or does the institution require that the student be reassessed? If the Board of Regents has adopted a policy or procedure pertaining to this issue, please provide a copy.

Each institution handles the process of evaluating an Individualized Education Plan (IEP) on an individual basis, and each institution has a disability resource center to ensure that students with disabilities have equal access to participate in, contribute to, and benefit from all programs. Currently, there is no Board policy concerning how institutions must utilize IEPs. Generally, if a student is seeking a particular accommodation based on a disability, the institution will take an existing IEP into consideration when determining the request for accommodation. Depending upon the status and age of the IEP and other considerations, including nature of the disability and any functional limitations that may impact a student's learning ability, the institution may require reevaluation of the student.

An IEP that was used by a student in high school may not be sufficient documentation for the postsecondary institution, because of the differences between postsecondary education and high school education. What the student requires to meet the new demands of postsecondary education may be different from what worked for the student in high school. And, in some cases, the nature of a disability may change.

According to regulations established by the U.S. Department of Education, postsecondary institutions may set reasonable standards for documentation. Some schools require more documentation than others. They may require the student to provide documentation prepared by an appropriate professional, such as a medical doctor, psychologist, or other qualified diagnostician. The required documentation may include one or more of the following: a diagnosis of the student's current disability, as well as supporting information, such as the date of the diagnosis, how that diagnosis was reached, and the credentials of the diagnosing professional; information on how the student's disability affects a major life activity; and information on how the disability affects the student's academic performance. The documentation should provide enough information for the student and the institution to decide what is an appropriate academic adjustment.

Millennium Scholarship and Students with IEPs

While the Board of Regents has not adopted a policy specific to students with IEPs, the Board has created certain exceptions for students with IEPs under the Millennium Scholarship eligibility criteria. Under Title 4, Chapter 18, Section 10.4 of the *Handbook*, students who have

a documented physical or mental disability or who were previously subject to an individualized education program under the Individuals with Disabilities Education Act, 20 U.S.C. §§ 1400 et seq., or a plan under Title V of the Rehabilitation Act of 1973, 29 U.S.C. §§ 791 et seq. are to be determined by the institution to be exempt from the following Millennium Scholarship eligibility criteria:

- The 6-year application limitation following high school graduation;
- The minimum semester credit hour enrollment levels; and
- The time limits for expending funds.

QUESTION 5

For FY 2012, please clarify the number and subject areas (i.e. mathematics) of dual credit courses and credit hours taken by eligible high school students in Nevada. If possible, please indicate the number of students as well. Please provide this information for each NSHE institution.

2011-12	Number of Dual Credit Courses Offered	Subject Areas in which Dual Credit Courses were Offered	Number of High School Students Enrolled
UNLV	5	Hotel Management, Mechanical Engineering, Nursing	68
UNR	-	NONE REPORTED	-
NSC	12	Business, Education, Sociology, Psychology	181
CSN	1,327 Sections (229 Courses)	Auto Tech Repair, Air Conditioning, Accounting, Academic & Life Success, American Sign Language, Anthropology, Arabic, Art, Asbestos, Automotive, Aviation, Bldg Inspection, Biology, Business, Computer Aided Drafting & Design, Counseling & Personal Svcs, Chemistry, Chinese, Computer Info Tech, Communication, Construction Mgmt, Computer Ofc Tech, Criminal Justice, Culinary Arts, Dance, Early Childhood Ed, Economics, Engineering, Emergency Mgmt Admin, English, Environmental Sci, English as a Second Language, French, Fire Sci Tech, Geography, Geology, German, Graphic Tech, Health & Human Performance, History, Health Info Tech, Hotel Mgmt, Interior Desing, Info Systems, Italian, Japanese, Latin, Mathematics, Mgmt, Marketing, Mech Tech, Music, Ophthalmic Tech, Phys Ed, Philosophy, Photography, Physics, Plumbing, Political Science, Psychology, Reading, Russian, Sociology, Spanish, Travel & Tourism, Theater, Womens Studies	1,132
GBC	29	American Sign Language, Anthropology, Art, Chemistry, Computer Office Technology, Criminal Justice, Economics, English, Film, French, History, Information Systems, Mathematics, Management, Music, Philosophy, Political Science, Psychology, Sociology	246

TMCC	257	Architecture Design, Accounting, Applied Industrial Tech, American Sign Language, Anthropology, Art, Astronomy, Automotive, Biology, Business, Computer Aided Drafting & Design, Cooperative Ed, Core Humanities, Chemistry, Computer Info Tech, Communication, Computer Ofc Tech, Counseling & Personal Dvlp, Criminal Justice, Computer Sci, Culinary Arts, Dance, Drafting, Diesel Tech, Early Childhood Ed, Economics, Education, Emergency Med Svcs, English, Engineering, Environmental Sci, Educational Psychology, French, Fire Sci Tech, Geography, Geology, Graphic Tech, Human Dvlp & Family Studies, Hebrew, History, Humanities, Info Systems, Journalism, Japanese, Mathematics, Mechanical Eng, Mgmt, Mental Health Svcs, Marketing, Mechanical Tech, Music, Natural Resource & Env Sci, Nursing, Nutrition, Physical Ed, Philosophy, Physics, Political Science, Psychology, Radiology Tech, Reading, Russian, Sociology, Spanish, Social Work, Theater, Welding	251
WNC	30	Art, Biology, Business, Chemistry, English, Electronics Technology, Mathematics, Music, Spanish, Theater	31

Enrollment by high school students in NSHE courses that are not counted for dual enrollment in high school and are NOT included in the above section.

2011-12	Subject Areas in which High School Students Enrolled	Number of High School Students Enrolled
UNR	American Sign Language, Business, Chemistry, Chinese, Computer Engineering, Computer Science, Economics, Geography, Mathematics, Music, Physics	125
UNLV	Biology, French, German, History, Japan, Mathematics, Music, Music, Physics, Political Science, Psychology, Spanish	11
NSC	Biology, CEP, Education, English, Environmental Science, Geology, Mathematics, Sociology, Psychology	4
CSN	American Sign Language, Asbestos, Astronomy, Biology, Counseling & Personal Service, Chemistry, Dance, Diesel Tech, Education, English, English as a Second Language, Food & Beverage, Health & Human Performance, History, Health Info Tech, Human Services, Journalism, Mental Health Services, Music, Ophthalmic Tech, Physics, Portugese, Sustainable Construction Tech, Welding	155
GBC	Accounting, Agriculture, American Sign Language, Applied Mathematics and Science, Anthropology, Art, Astronomy, Biology, Business, Chemistry, Communication, Computer Office Technology, Criminal Justice, Early Childhood Education, Economics, English, Finance, French, Geography, Human Development and Family Studies, History, Human Services, Integrative Studies, Information Systems, Mathematics, Management, Music, Nursing, Physical Education and Excercise, Philosophy, Physics, Political Science, Psychology, Radiology, Sociology, Social Work, Transport Technology, Welding.	727

TMCC	American Sign Language, Anthropology, Art, Automotive, Computer Aided Drafting & Design, Chemistry, Communication, Criminal Justice, Culinary Arts, Dance, Economics, Education, Emergency Med Svcs, English, Engineering, Renewable Energy, Educational Psychology, Fire Sci, Geography, Geology, Graphic Tech, Human Dvlp & Family Studies, History, Humanities, Journalism, Japanese, Mathematics, Music, Phys Ed, Philosophy, Political Science, Psychology, Reading, Sociology, Spanish, Theater	59
WNC	Accounting, American Sign Language, Anthropology, Art, Biology, Business, Chemistry, Computer Info Tech, Communication, Criminal Justice, Emergency Medical Services, English, Educational Psychology, Electronics Tech, Finance, Geography, Geology, Geographic Info Systems, History, Health Info Tech, Information Systems, Mathematics, Music, Philosophy, Political Science, Psychology, Sociology, Spanish, Theater	37

QUESTION 6

Please provide a copy of the NSHE report on “student access and affordability” which was referenced at the meeting.

Included in **Appendix A** is a copy of the June 2012, final report of the Access and Affordability Committee, an ad hoc committee created by the Chancellor charged with making recommendations in the context of tuition and fees and financial aid that encourage full-time enrollment and degree completion.

QUESTION 7

Please provide a one to two page overview of the process by which institutions of higher education attain federal designation as a Hispanic-Serving Institution.

As the Committee is aware, the multipart process by which institutions of higher education are acknowledged as Hispanic Serving Institutions (HSI) is administered at the federal level by the U.S. Department of Education. This response includes a general overview of that process and additional sources of information.

Before an institution of higher education may be recognized at the federal level as an HSI, the institution must first apply for and be designated as a Title III and Title V eligible institution, which is an annual process administered by Institutional Service within the U.S. Department of Education’s Office of Postsecondary Education. Institutional Service administers the programs authorized under Title III (Institutional Aid) and Title V (including HSI) of the Higher Education Act of 1965, as amended.

For Fiscal Year 2012, the 45-page application package to request designation as an eligible institution under Title III and Title V programs was available on-line (https://opeweb.ed.gov/title3and5/codes/t3_login.cfm) through the Office of Postsecondary

Education on December 15, 2011. The deadline for eligibility designation of institutions applying for new grants was February 10, 2012. As part of the annual application package, institutions must complete ED Form 1049, a copy of which was included in the 2012 on-line packet and is attached for reference (**See Appendix B**).

As noted previously, an HSI is defined as an institution of higher education that has been designated as an eligible institution for Title III and Title V programs and has an enrollment of undergraduate full-time equivalent students that is at least 25 percent Hispanic students at the end of the award year immediately preceding the date of application. According to staff at with the Institutional Service office, institutions that meet these eligibility requirements and want to apply for a grant must then submit the necessary student enrollment data to be acknowledged as an HSI.

For additional information on the status of NSHE institutions that have received the Title III and Title V federal designation, please see the Chancellor's response to earlier questions from the Committee to Study the Funding of Higher Education dated June 18, 2012.

QUESTION 8

For each community college, please identify the dollar amount of research, infrastructure and operations-supporting grant funding which each institution received directly in FY 2012 and which is not otherwise shown in either the state-supported or self-supporting operating budgets.

Final FY 12 data is not yet available. FY 11 data is provided below in a table which identifies institutional awards and expenditures by category and source.

NSHE Sponsored Projects Annual Awards and Expenditures Report (Awards & Expenditures by Function & Sources of Funds) FY 2011														
College of Southern Nevada														
Sponsor	Functional Categories													
	Instruction		Research		Public Service		Scholarships & Fellowships		Student Services		Other Categories		Total Sponsored	
	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended
Federal	410,032	239,894	0	0	0	0	37,325,885	37,171,633	1,052,290	709,949	1,564,878	230,384	40,353,085	38,351,860
Federal Pass-through	5,004,798	3,198,963	0	0	0	0	158,000	157,934	490,906	467,240	94,097	86,224	5,747,801	3,910,361
State of Nevada	709,800	700,030	0	0	0	0	14,500	14,500	0	0	0	0	724,300	714,530
Other state and local govt.	7,143	7,142	0	0	0	0	0	0	0	0	0	0	7,143	7,142
Private, For-Profit (Industry)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Private, Non-Profit	0	0	0	0	0	0	0	0	30,000	8,514	0	0	30,000	8,514
CATEGORY TOTALS	6,131,773	4,146,029	0	0	0	0	37,498,385	37,344,067	1,573,196	1,185,703	1,658,975	316,608	46,862,329	42,992,407
Great Basin College														
Sponsor	Functional Categories													
	Instruction		Research		Public Service		Scholarships & Fellowships		Student Services		Other Categories		Total Sponsored	
	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended
Federal	305,574	277,168	0	0	0	0	2,913,691	2,913,691	0	0	0	0	3,219,265	3,190,859
Federal Pass-through	1,809,974	1,178,274	0	0	6,150	6,150	20,000	12,000	0	0	0	0	1,836,124	1,196,424
State of Nevada	330,761	330,761	0	0	0	0	0	0	0	0	0	0	330,761	330,761
Other state and local govt.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Private, For-Profit (Industry)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Private, Non-Profit	0	0	0	0	2,500	2,500	0	0	0	0	0	0	2,500	2,500
CATEGORY TOTALS	2,446,309	1,786,203	0	0	8,650	8,650	2,933,691	2,925,691	0	0	0	0	5,388,650	4,720,544
Truckee Meadows Community College														
Sponsor	Functional Categories													
	Instruction		Research		Public Service		Scholarships & Fellowships		Student Services		Other Categories		Total Sponsored	
	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended
Federal	639,177	566,533	0	0	0	0	15,520,449	15,520,449	711,277	676,036	600,000	5,020	17,470,903	16,768,038
Federal Pass-through	2,300,805	1,720,751	0	0	0	0	55,279	55,279	188,694	126,698	445,623	413,569	2,990,401	2,316,297
State of Nevada	133,176	128,029	0	0	0	0	310,234	310,234	60,000	37,535	0	0	503,410	475,798
Other state and local govt.	46,050	40,393	0	0	0	0	0	0	0	0	0	0	46,050	40,393
Private, For-Profit (Industry)	241,573	241,573	0	0	0	0	11,738	11,738	0	0	0	0	253,311	253,311
Private, Non-Profit	0	0	0	0	0	0	1,123,627	1,123,627	0	0	0	0	1,123,627	1,123,627
CATEGORY TOTALS	3,360,781	2,697,279	0	0	0	0	17,021,327	17,021,327	959,971	840,269	1,045,623	418,589	22,387,702	20,977,464
Western Nevada College														
Sponsor	Functional Categories													
	Instruction		Research		Public Service		Scholarships & Fellowships		Student Services		Other Categories		Total Sponsored	
	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended	Total \$ Awarded	Total \$ Expended
Federal	0	0	0	0	0	0	7,159,156	7,164,886	5,356,777	5,341,563	0	0	12,515,933	12,506,449
Federal Pass-through	1,370,189	1,017,544	0	0	0	0	0	0	0	0	0	0	1,370,189	1,017,544
State of Nevada	89,046	71,086	0	0	0	0	0	0	0	0	0	0	89,046	71,086
Other state and local govt.	11,700	20,570	0	0	2,780	2,475	0	0	0	0	0	0	14,480	23,045
Private, For-Profit (Industry)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Private, Non-Profit	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CATEGORY TOTALS	1,470,935	1,109,200	0	0	2,780	2,475	7,159,156	7,164,886	5,356,777	5,341,563	0	0	13,989,648	13,618,124

QUESTION 9

Please provide information that explains the basis for the Small College Factor, why the maximum funding is proposed as \$1.5 million per institution, why it is proposed to decrease as weighted student credit hours increase and the scale on which it decreases.

The inclusion of a small institution factor intends to address certain administrative fixed costs which exist at any institution regardless of its size. Generally speaking, these would include functions like a President's Office, Chief Academic Officer/ Provost's Office, Controller/ Finance Office, etc. In preparing the model, it became apparent that the smaller community colleges (GBC and WNC) did not have adequate weighted student credit hours to fully distribute these fixed overhead costs.

The figure of \$1.5 million approximates the amount of overhead otherwise not distributed. As a point of reference, it is approximately one half of the smallest FY 12 community college institutional support budget. By intention, it does not correlate to specific line items, and NSHE

would generally recommend against any line item calculation forming the basis for this number as to avoid creating any artificial expenditure plan that would otherwise restrict institutional flexibility.

As indicated in the footnote of the model, the proposed \$1.5 million phases out between 50,000 and 100,000 weighted student credit hours (WSCH). In other words, every additional WSCH above 50,000 results in a reduction of \$30.00 in the small institution factor. Note that the cap of 100,000 is weighted student credit hours. Using the projected FY 12 WSCH and projected FY 12 FTE from those two smaller institutions, it was determined that every FTE generated an average of 32.13 WSCH. In the existing Formula, 3,000 FTE is the point at which an institution loses its small institution weighting. This number, times 32.13 equals 96,390 WSCH, which was rounded to 100,000.

	FY 12	FY 12	WSCH/
	Proj WSCH	Proj FTE	FTE
GBC	63,041	1,853	34.02
WNC	72,985	2,381	30.65
Total	136,026	4,234	32.13

QUESTION 10

With regard to the proposed performance pool, please provide a copy of Version #19 and, if a newer iteration is available, please provide that version.

Versions 19 & 20 of the proposed performance pool is attached. See **Appendix C.**

QUESTION 11

For Fiscal Years 2009, 2010, 2011 and 2012, for each community college, please provide a table that shows the total General Fund appropriation expended, the annual average full-time student equivalents and the resultant General Fund appropriation per SFTE. Please provide a second table that demonstrates the same information based upon total revenues (General Fund appropriation, registration fees, non-resident tuition, miscellaneous student fees and investment income) reflected in the institutions' state-supported operating budgets. Finally, based upon the proposed \$132.56 "price" per weighted student credit hour of the NSHE's alternative funding formula model and utilizing FY 2012 final SFTE enrollments, show the General Fund appropriation per SFTE each college would receive in FY 2014 and FY 2015 under the alternative funding formula.

See **Appendix D.**

QUESTION 12

Please provide information on the specific federal grant funding (name, dollar amount, whether one-time or ongoing, purpose) NSHE currently receives by virtue of the University of Nevada being recognized as a Land Grant institution. Please identify which institutions receive the funding identified and the amount they received in FY 2012.

See **Appendix E.**

APPENDIX A



Committee on Access and Affordability

Report and Recommendations

June 2012



Access and Affordability - Critical to Graduating Students

Across the nation, states, including Nevada, are struggling to piece together budgets to fund public colleges and universities in these times of continued economic distress. Faced with severe cutbacks, many public institutions are turning to the one source they have for increasing revenue – tuition and fees. These increased costs are, in turn, putting college students and their families under mounting financial pressure. The cost of education remains a significant barrier to degree attainment, a barrier that cannot be ignored in light of the national movement and state imperative to increase the number of citizens that have a degree or certificate of value. This report examines access and affordability in the context of Nevada’s rising tuition levels and limited financial aid resources.



Under the Complete College America Alliance, Nevada’s colleges and universities face the daunting challenge of significantly increasing the number of students they graduate with a degree or credential of value. This is a challenging goal in a state where the majority of students attend college part-time as they struggle to provide for their families. Completing a degree or certificate is particularly challenging for low income and first generation students, often from underrepresented racial or ethnic groups, who are increasingly the populations that the Nevada System of Higher Education (NSHE) institutions will serve in coming years. The most underserved populations are among the least able to afford rising tuition, least likely

to enroll in college, and least likely to complete a degree or certificate program if they do enroll. Given the considerable challenges facing NSHE institutions, Chancellor Dan Klaich appointed an ad-hoc Committee on Access and Affordability to review the Board of Regents tuition, fee and student financial aid policies. This report is the Committee’s response to the Chancellor’s charge.

Committee Charge

With the goal of encouraging full-time enrollment and degree completion, the Committee on Access and Affordability was charged with the following:

- Review and consider recent increases in registration fees and tuition, mandatory student fees, including special course and differential fees, in the context of Nevada’s current family income and available financial aid.
- Review and consider institutional and system-wide trends in the distribution of need-based financial aid.
- Review and consider institutional and system trends related to affordability, including college participation rates for students from low-income families, institutional cost of attendance, and all sources of aid to students, including federal aid and tax credits, state assistance through the Millennium Scholarship, and family and student contributions.
- Review and consider “truth-in-tuition” models and policies utilized in other states.
- Review and consider tuition and fee models that are designed to encourage timely degree completion.
- Establish student and parent forums to seek input on the cost of higher education and the impact it may have on student and family decisions related to higher education.

Committee Representation

For this ad hoc study committee, the Chancellor appointed five institutional representatives who collectively have expertise in financial aid, admissions and recruiting; three students representing undergraduate, graduate and community college students; one faculty representative; and two parents, one representing parents of graduating high school students and one parent of enrolled college students. The Committee was chaired by Crystal Abba, NSHE Vice Chancellor for Academic and Student Affairs. Staffing for the Committee was provided by Linda Heiss, NSHE Director of Institutional Research, and Renee Davis, NSHE Director of Student Affairs. The time and thoughtful attention to these important issues by Committee members is sincerely appreciated.

Joseph K. Broad

Student and Speaker, ASUN
University of Nevada, Reno

Heather Dodson

Student and President, ASWN
Western Nevada College

Rita Escher

Director of Academic Services
University of Nevada, Reno

Michael Gordon

Student and President, GPSA
University of Nevada, Las Vegas

Brad Gruner

Dean of Student Affairs
College of Southern Nevada

Jesus Gutierrez

Parent and Business Owner

Robin Herlands

Faculty Member and NSC Faculty Senate Chair
Nevada State College

Luke Schultheis

Executive Director of Admissions
University of Nevada, Las Vegas

Kimberly Tate

Parent and President, Nevada PTA

Neil Woolf

Director of Enrollment Services
Nevada State College

Sharon Wurm

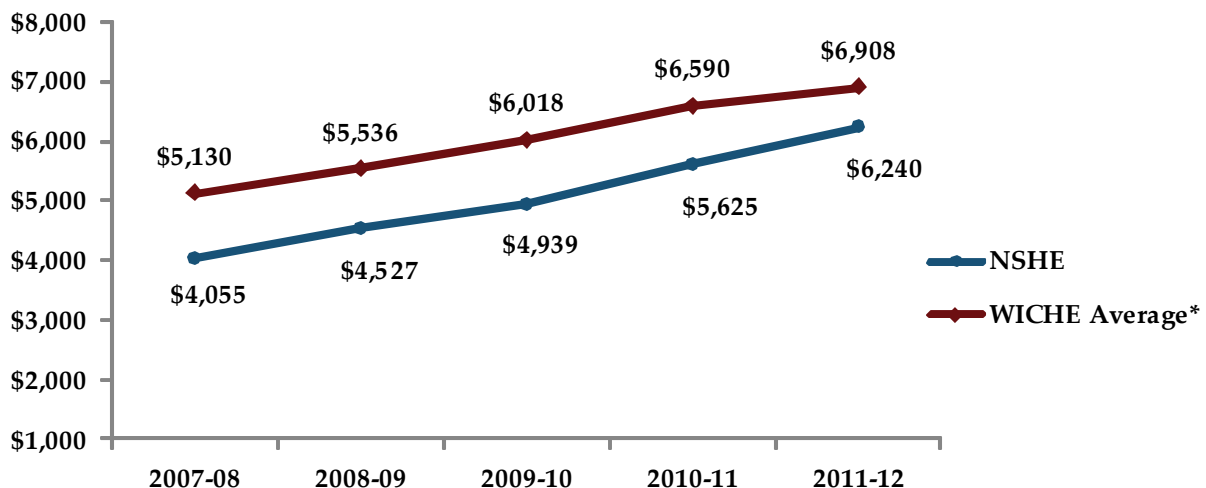
Director of Financial Aid
Truckee Meadows Community College



Are NSHE Institutions Affordable?

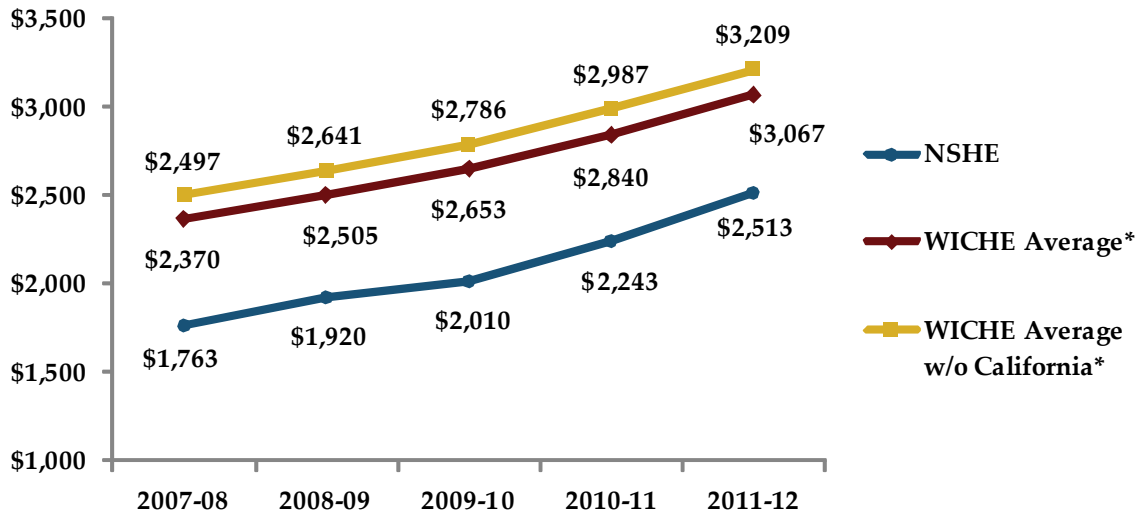
Compared to other western states, Nevada's tuition and fees remain low. In the case of NSHE universities, tuition and fees in recent years have remained consistently below the average tuition and fees paid in other western states. The same is true of NSHE community colleges particularly when the exceptionally low rate paid by students attending California community colleges is removed from the calculation. The comparatively low tuition and fee rates charged in Nevada are due in part to the historical policy of the Board of Regents that provided fees would be set based on the WICHE median of state averages using a 3-year lag. The 3-year lag provision was intended to keep NSHE tuition and fees low relative to those charged in the WICHE states (see Appendix H for a list of WICHE members). The Board's low tuition philosophy was abandoned in April 2010 as a result of a recommendation of the Tuition and Fee Committee and in light of growing pressure to increase fees in an environment of declining state support.

**Average Undergraduate Resident Tuition and Mandatory Fees
Public Universities in the WICHE Region**



*Note: WICHE Average is the average of state averages, calculated using comparable institutions from WICHE *Tuition and Fees in Public Higher Education in the West*. Revised 8/3/12.

Average Undergraduate Resident Tuition and Mandatory Fees Public 2-Year Institutions in the WICHE Region



*Note: WICHE Average is the average of state averages, calculated using comparable institutions from *WICHE Tuition and Fees in Public Higher Education in the West*. Revised 8/3/12.

Based on relative western state comparisons, for those factors that are in the control of the Board of Regents (e.g. registration fees, tuition, student fees, special course fees, differential program fees, etc.), tuition and fees in Nevada are comparatively low. However, students and their families often do not consider the cost of an NSHE institution compared to institutions in other states; rather they are simply focused on the cost of attending a Nevada institution. Nevada's cost of living is a factor outside the Board's control, but often impacts students' decisions in terms of whether or not they choose to attend or, if attending, whether full- or part-time.

Percent of Family Income Needed to Pay for College in Nevada

Institutional price based on tuition and fee levels alone does not dictate affordability, and finding a meaningful way to assess the impact of cost of living on decision making about college is difficult. One way is to look at the portion of income students and their families must spend to cover the costs of higher education, including living expenses. Employing the concept of net price (tuition and room and board less federal, state need- and non-need based aid, and institutional aid), also makes it possible to take financial aid into consideration. For public two-year institutions, in 2009 the percent of median family income needed to pay for college in Nevada was 16.8 percent, compared to the national average of 12.9 percent (Appendix A). Nevada was lower than only two other states: New Hampshire at 17.9 percent and Vermont at 17.5 percent. When considering the same affordability indicator for families in the lowest income quintile, the picture is even worse. Again for 2009, the percent of family income needed to pay for college at a two-year institution was 53.4 percent for Nevada, compared to 46.4 percent for the national average (Appendix B).

Looking at the same data for public four-year colleges and universities, Nevada is much closer to the national average than it is for two-year institutions. In 2009, the percent of median family income needed to pay for college at a four-year institution in Nevada was 17.6 percent, compared to the national average of 16.9 percent (Appendix C). What is even more striking is the fact that when

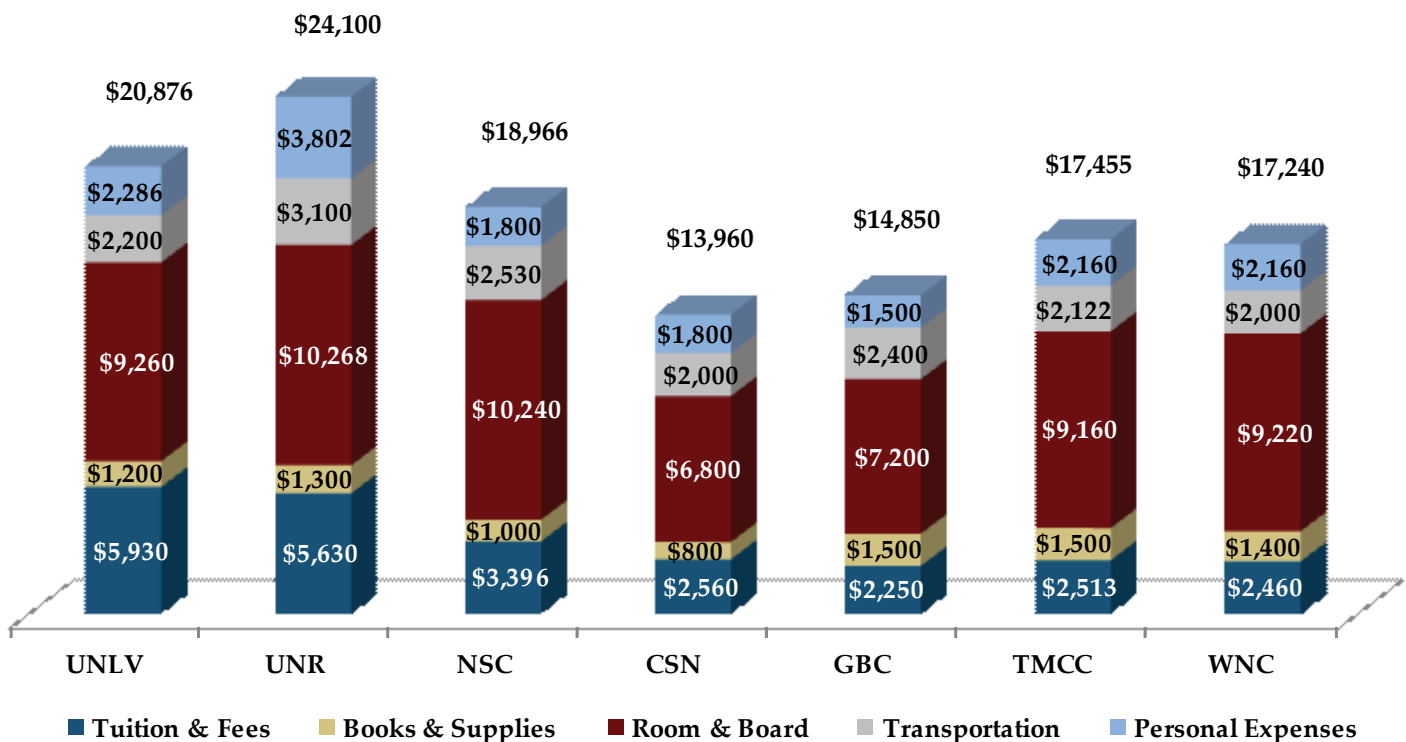
considering the same affordability indicator for families in the lowest income quintile, Nevada, at 56 percent of family income necessary to pay for education at a public four-year institution, actually fares better than the national average 60.7 percent (Appendix D). So, although it is understood that tuition and fees are higher at Nevada four-year institutions than at the two-year institutions, Nevada four-year institutions are better able to offset cost of attendance with financial aid than are the majority of four-year institutions across the nation.

Nevada's High Cost of Living and the Impact on Cost of Attendance

Whether one is looking at two-year or four-year institutions in Nevada, the poorest of families must devote an average of over 50 percent of their family income toward higher education, and that is *after* financial aid. Based on the indicators discussed above, it appears that Nevada's relatively high cost of living significantly impacts college affordability and may be one of the primary reasons that such a large percentage of NSHE students attend part-time—they simply cannot afford to support themselves or a family and go to school full-time.

The impact of cost of living is evident in the following table that reflects the cost of attendance for a student living off campus. This cost represents a middle ground that is less expensive than the cost associated with living on campus, but more expensive than living with family. Overall, more NSHE students have an off campus cost of attendance assigned to them in the financial aid process than either of the other categories. Institutional cost of attendance is determined based on a methodology defined by the U.S. Department of Education and is calculated independently by each institution. As a result of the varied assumptions made at each institution, the cost of each category can vary, even for institutions in the same service area.

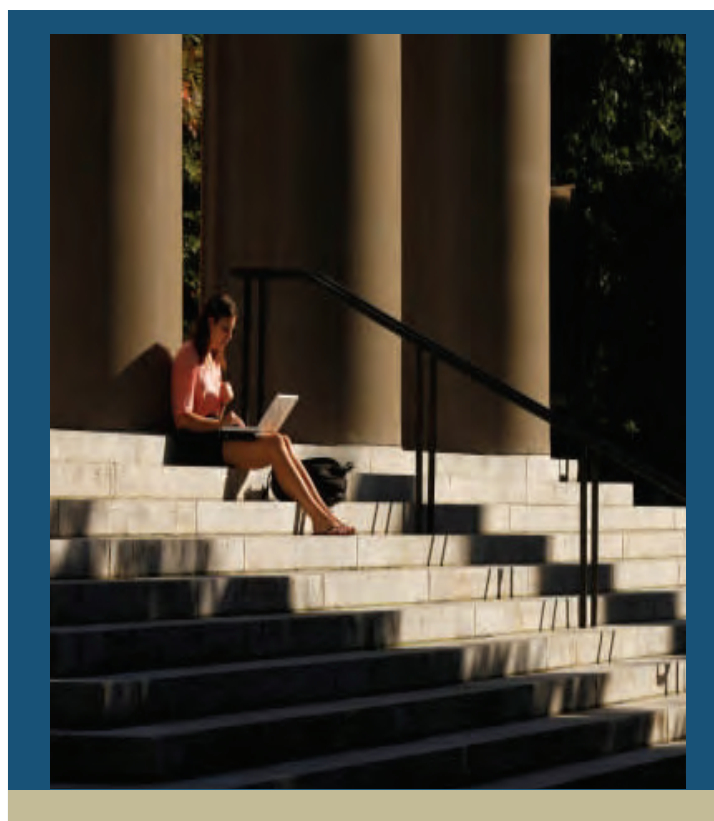
NSHE 2010-11 Institutional Cost of Attendance - Off Campus



Grants, Scholarships, and Student Financial Assistance

It is important to recognize the impact of federal Pell Grants on affordability. A full-time low-income student attending an NSHE institution can qualify for an annual award of up to \$5,550. That award is significant in that at NSHE community colleges it will cover the full cost of registration fees and other mandatory fees (assuming 30 credits), and there will be a sufficient amount left over to cover books and supplies. The \$5,550 Pell award will not go as far for a full-time university student, but at a minimum it will cover registration and other mandatory fees.

Many Nevada high school graduates also qualify for the Governor Guinn Millennium Scholarship that for full-time students amounts to an additional \$960 per year at the community colleges, \$1,440 at the state college, and \$1,920 at the universities. Similarly, limited amounts of other need- and merit-based aid are also available at NSHE institutions, but not all students qualify for these types of financial assistance. A student may qualify for one or more scholarships, a state grant or work study, but there are not sufficient funds to award all qualified applicants, and they are often awarded on a first-come, first serve basis. Likewise, a student may choose to cover the remaining cost of attendance with one or more student loans, which are funds that must be paid back once the student graduates or stops attending at least half-time.



Therefore, in a best case scenario, it is possible for the neediest of students to cover registration, mandatory fees, books and supplies with financial aid and even have some money left over. At first glance it would seem that there is no reason that a needy student should be prevented by financial constraints from attending college in Nevada. However, covering the total cost of attendance, which includes a modest living expense, is a different story. The fact is that the neediest students come from households that do not have any additional resources to contribute, and the time spent attending classes and doing homework often results in lost wage-earning hours for the student and family. Additionally, in most cases student earnings (except for work-study) reduce Pell Grant and other financial aid eligibility, so students working to cover their own living expenses normally have a reduction or loss of Pell grant eligibility the year after they begin working.

It is also important to note that the total dollars in financial aid disbursed to NSHE students has been on the rise for the last several years, having increased by 86 percent from \$292 million in 2006-07 to \$544 million in 2010-11. These gains came primarily in the grant and loan categories, which increased by 201 percent and 89 percent, respectively. Of the increase in grants during this period, 74 percent

came from Pell Grants and 15 percent from Veterans Education Benefits, both federal sources. In fact, Nevada's percentage of aid from federal sources is much higher than the national average. For example, in 2010-11 federal dollars constituted 84 percent of grants to NSHE students versus 46 percent nationally. This is particularly significant in that the Pell Grant program appears to be entering a period of narrowing eligibility, after an expansion over the past few years. Consequently, in order to increase the affordability of NSHE institutions for low income students, the System must begin to evaluate the sources of financial aid and begin conversations with the State of Nevada on how the state can assume a greater role in ensuring that higher education is affordable to low income students.

Need for Transparency of the Cost of Higher Education

A somewhat secondary issue, but equally important to students and parents, is the issue of transparency. Transparency of tuition and fees is critical for students and parents if they are to plan for college and save appropriately. "Sticker shock" often occurs when students and parents realize that the cost of enrollment is more than the registration fees that are often cited in the media when fee increases are reported. Mandatory fees, including facilities, technology, health, counseling, recycling and similar fees, are not readily apparent to parents and students when planning for college. Often, students and their families are not fully aware of the total cost until they receive their bill. The use of the federally-mandated net price calculator on the institution's web site is useful to parents and students, but only to the extent that they are aware of the calculators and utilize them.




Many NSHE students enroll part-time so that they may support themselves or a family while pursuing a degree, without realizing that this part-time path reduces the likelihood of graduation. Also, the lack of awareness among low-income and first-generation students and their families of financial aid options is a significant challenge. NSHE institutions must continue their work in providing students with the most accurate information on the "price" of going to college. Low income students often overestimate the cost of education and seek out little or no information on financial aid. Therefore, their misperceptions about cost often deter them from enrolling and pursuing a degree at all or in a manner that would lead to success.

So, are NSHE institutions accessible and affordable? While Nevada compares favorably to other western states when looking solely at tuition and fees, price

alone is not indicative of affordability. When considering the cost of tuition and fees at Nevada institutions in conjunction with the cost of living in this state, higher education is not easily affordable, particularly for Nevada families in the lowest income quintile. Tuition and fee policies cannot be considered in isolation from other policies, particularly financial aid, if the state is to make higher education accessible to all students in Nevada, regardless of family income. All policies must work together to serve the dual purpose of increasing access for underrepresented populations and encouraging student success and degree completion.

Tuition & Fee Recommendations



The Committee examined a number of tuition and fee models that are being used in other states, including: Truth in Tuition models, excess credit policies, tuition brackets, and tuition rebate programs. The Committee's recommendations for tuition and fee policies focus on the need for predictability and transparency in order to provide a pathway for Nevadans of all income levels to complete college. The following section details the Committee's three tuition and fee policy recommendations.

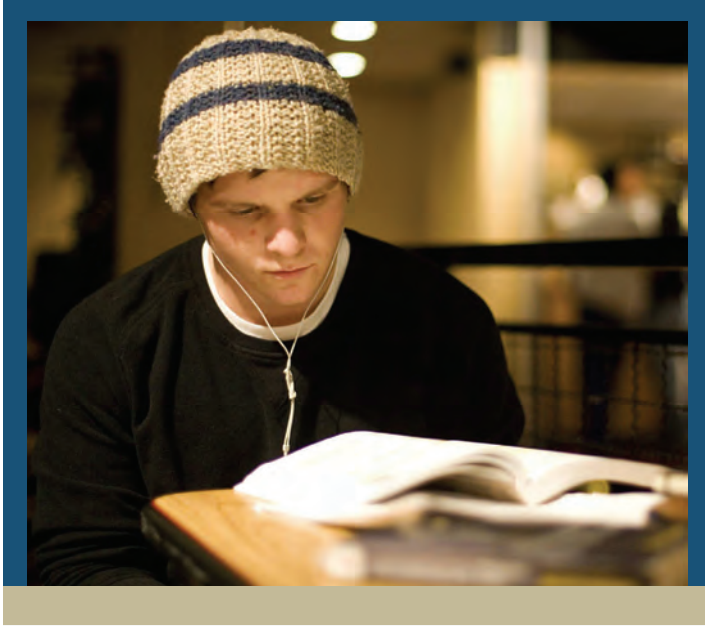
Recommendation #1: Tuition Bracket Models for Further Study

In relation to a tuition and fee policy that encourages degree completion, the Committee supported consideration of a Tuition Bracket model. This would establish a single tuition amount for a range of credits, regardless of a student's actual credit load, thereby encouraging full-time enrollment. However, the Committee agreed that establishing a tuition bracket policy prior to the completion of the formula funding study authorized under Senate Bill 374 (Chapter 375, *Statutes of Nevada 2011*) would not be possible given the number of unknowns related to outcomes of the formula study. Therefore, the Committee recommends that the Chancellor and Board of Regents direct the next regularly-appointed Tuition and Fee Committee to further study the matter of tuition brackets and determine the appropriate price for a bracket designed to encourage full-time enrollment.

For four-year institutions, the Committee discussed a full-time bracket where students enrolled in 12 to 18 credits would be charged a flat fee (possibly based on 15 credits or at whatever point would make it cost neutral). In this scenario, students taking more or less than the bracketed credit amounts would pay the approved per credit fee. Receiving a "discount" for taking the higher number of credits within a given bracket may encourage full-time enrollment. After further consideration, the Committee felt that offering only this full-time bracket would not be attractive to some students who are limited in the number of credits they can take due to other financial or personal obligations. This may be particularly

true at the community colleges and state college. In addition, concern was voiced that a single full-time bracket might encourage students to take more credits than they can successfully complete. Therefore, while the Committee was supportive of a Tuition Bracket model, it recognized that the Tuition and Fees Committee will need to study brackets of different credit amounts and that the range of credits may need to vary by institution type.

Recommendation #2: Adopt an Excess Credit Policy



In the past decade a number of states have adopted policies that discourage excessive credit accumulation. North Carolina (1993), Utah (2003), Wisconsin (2004), Texas (2006), Arizona (2006) and Virginia (2006) all increase the cost to students after they have passed a specific credit threshold. In North Carolina, for example, state statute dictates that once a student earns 140 credits, they must pay an additional 50 percent of resident undergraduate tuition. Similarly, Federal Student Aid (Title IV) policy dictates that students no longer qualify for financial assistance after they have earned credits equal to 150 percent of what it would take to earn a degree. In both cases, the philosophy

seems to be to shift more of the cost from the taxpayer to the student in cases where students fail to appropriately progress toward their educational goals.

The Committee recommends NSHE consider this policy and set the credit limit at 150 percent of the published program length, in order to correspond with Title IV Federal Student Aid policy. While other credit limits may also be examined, alignment with Title IV policy gives students leeway to cover additional coursework that may be generated for legitimate reasons, such as placement in remedial courses, transfer, or change in major. An added benefit of alignment with Title IV policy in this area would be an increase in transparency for students as it becomes simpler for campuses to communicate a standard policy that covers both financial aid and tuition and fees. Additional cost to a student who reaches the 150 percent threshold could be set at 50 percent higher per credit or at a level deemed appropriate.

Recommendation #3: Ensure the Predictability and Transparency of Tuition and Fee Increases

Tuition and fee policies should allow students and families to plan for the cost of a college education, as well as give NSHE institutions a predictable and sustainable revenue stream that will enable students to successfully complete their degrees in a timely fashion. The Committee strongly recommends that the Board of Regents follow its existing tuition and fee policy that ensures regular and reasonable fee increases based on inflationary increases and the needs of the institutions within a clearly defined process that includes opportunity for student input. The Committee also urges that off-cycle fee increases be avoided whenever possible.

Financial Aid Recommendations



Virtually every time it is issued, the annual NSHE Financial Aid Report reflects an increase in total financial aid disbursed to students. Especially in recent years, this increase has been a reflection of three factors: more students enrolled, applying for and being awarded federal student aid; expansion of the Pell Grant program; and an increased number of students borrowing larger federal loans. Over the years there has also been an increase in Student Access funds (referred to in Board policy as the Regents Higher Education Opportunity Award) available to students, but this increase has come primarily in the student fee-generated category, with the state-supported portion of need-based aid remaining low. In 2010-11 Student Access disbursements amounted to \$30 million NSHE-wide, and over 80 percent of dollars went to need-based awards. Of these dollars, \$10 million were state supported, with the remaining \$20 million coming from the fee-generated category. Also of note, an additional \$24 million in state dollars was awarded in 2010-11 by the Governor Guinn Millennium Scholarship program. However, while of undeniable assistance to students receiving the Millennium Scholarship, the Millennium awards are merit-based and are intended to encourage Nevada high school graduates to remain in Nevada to attend college. They are not targeted to assist students who cannot afford higher education.

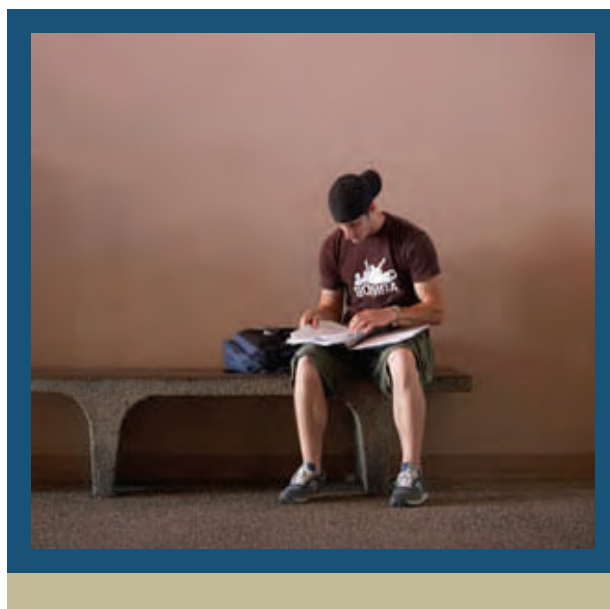
Importantly, since other state-supported financial aid funds are not directly appropriated by the state and are instead allocated by the institutions from their state-supported operating dollars, there is a chance that these state-supported funds could be allocated for other purposes.

For fee-generated dollars, a percentage of each fee increase is set aside by institutions to be awarded as financial aid as is mandated in Board policy (*Handbook*, Title 4, Chapter 18, Section 9). In 2010-11 the

\$20 million in fee-generated Student Access dollars was double what was awarded in the state-supported category. As part of paying higher tuition and fees, all NSHE students are increasingly sharing the burden of supporting student financial aid. As state support for higher education decreases, tuition and fees have also increased, signaling a shift in the financial burden from taxpayer to student through higher fees and set-asides from those fees for financial aid. As tuition and fees inevitably continue to increase, the dollars awarded in this program will continue to increase, but such a practice is neither sustainable nor fair to students.

Parallel to this is a similar shift in financial aid policies at the federal and state levels. At the federal level, Pell Grant eligibility is being narrowed by Congress, and support of federal student loans is declining in a number of ways, most notably in the impending increase in the fixed interest rate for the Direct Loan program. Unless current efforts in Congress to extend the 3.4 percent interest rate are successful, beginning July 1, 2012, the rate will double to 6.8 percent.

As higher education is called to demonstrate greater accountability and funding resources remain scarce, NSHE is taking a look at how financial aid has been awarded in the past and what policies might be developed to ensure both state-supported and fee-generated funds are awarded more effectively, with an eye toward encouraging full-time enrollment and increasing degree completion. Looking at a cohort of students who were attending an NSHE institution for the first time in 2004-05, it is apparent that, whether financial aid recipients or not, a much higher percentage of full-time students completed a degree by August 2011, six years later (Appendix E). This was true whether the students started at a community college and eventually completed a certificate, associate degree or bachelor's degree or whether the students started at a four-year institution and eventually completed a bachelor's degree.



Using the same 2004-05 cohort of students, the amount of aid disbursed over six years of enrollment to community college students who were neither enrolled as of Fall 2011 nor had earned a degree was nearly \$13 million, including student loans. Of the nearly \$13 million awarded to community college students who did not graduate, over \$9 million (72 percent) was awarded to part-time students. Of all students in this cohort, 46 percent of full-time students graduated while only 26 percent of part-time students graduated (Appendix F). This pattern was not repeated for dollars awarded by the universities, where the majority of financial aid awards are systematically made to full-time students. Even so, full-time university students from this cohort comprised a higher percentage of completers than they did of non-completers (Appendix G). In reviewing data for similar student cohorts attending an NSHE institution for the first time in 2003-04 and 2005-06, similar trends existed. This reinforces the need to evaluate financial aid policies in an effort to encourage full-time enrollment and degree completion.

Recommendation #4: Adopt Financial Aid Reporting Measures

Current Board policy provides that Student Access funds, both state-supported and fee-generated, must be allocated in a certain manner (*Handbook*, Title 4, Chapter 18, Section 9). Specifically, the policy mandates that at least 80 percent of Student Access funds for each institution each academic year must be allocated to need-based programs for undergraduate students. Given the previously reviewed NSHE data concerning the allocation of Student Access awards to full and part-time students, including the rates at which



those students graduate, the Committee struggled with a proposal for establishing target percentages for the need-based portion that must be allocated to full-time students. While the committee clearly understood the implications of the data, the fact remains that for Nevada institutions, particularly the community colleges and state college, part-time students make up a high percentage of the student population. In addition, when staff discussed the creation of a policy to establish such target percentages with campus financial aid directors, the financial aid directors were not supportive of establishing specific percentages of fee-generated and state-supported student aid that must be awarded to full-time students. While it is expected that a financial aid policy to encourage full-time enrollment might be successful for some students, many students must attend part-time due to either personal or academic reasons. The Committee and the financial aid directors feared that reducing the amount of state-supported and fee-generated student aid to part-time students would further endanger their academic success.

In the absence of widespread campus support for focusing financial aid on full-time students, the Board of Regents should consider a policy requiring each NSHE institution to report annually on the success (e.g. degree and certificate attainment) of those students who receive state-supported or fee-generated Student Access aid. This approach would require the institutions to conduct on a regular basis the study undertaken by the Committee – reviewing the dollars distributed to students over a defined period of years and determining whether or not those students received a degree or certificate of value. Institutions would need to evaluate whether or not Student Access dollars are being distributed in the most effective and beneficial manner. A reporting requirement will increase accountability and transparency of NSHE financial aid programs.

If such a reporting policy is adopted, institutions should be required to report on financial aid disbursements to full- and part-time students over a defined period of time. In addition, institutions would need also to report on their method of communicating to students the specific benefits of their institutional grant programs. If, for example, an institution adopts a grant to encourage full-time

attendance, it is not necessarily enough to create and award the grant. In order to change student behavior, such programs must be marketed to students, with enough time provided for students to adjust their enrollment if they choose to do so. It is especially important to make students aware of such a grant program in a timely manner since the goal is not simply to encourage full-time enrollment, but to actually increase progress toward degree completion. This means students would need to have access to courses that contribute to their progress, which requires time and planning on the part of the student, as well as the institution.

Recommendation #5: Encourage Timely Degree Completion by Limiting Financial Aid for Excess Credits

Certain criteria must be met by students in order to qualify for Federal Student Aid (FSA) programs, including satisfactory progress toward an academic goal. Most Nevada institutions apply the same rules when awarding at least a portion of fee-generated Student Access funds. When measuring Satisfactory Academic Progress according to Title IV regulations, institutions must monitor the number of credits attempted by financial aid applicants. As noted earlier, students may only receive federal aid for a period no longer than 150 percent of the published length of the program. For example, a student pursuing a 60-credit associate degree can only receive aid for up to 90 credits. The Committee recommends establishing a congruent policy for both state-supported and fee-generated Student Access aid. In other words, the proposed policy would establish student eligibility for



state-supported and fee-generated Student Access aid for no longer than 150 percent of the published length of the program. Because this policy already exists for Federal Student Aid, it would not add to the administrative burden of institutions, but would provide more guidance for students to ensure they are on track for graduation and not spending valuable time taking courses that will not count toward their chosen degrees or certificates.

Additional benefits of this approach are threefold. First, the creation of a standard policy that applies to the majority of aid offered at Nevada public institutions would make it

simpler for financial aid offices to communicate such information to students. Second, such standardization would afford institutions a greater opportunity to focus on student responsibility and increase awareness of such requirements among students, faculty, and advisors. Finally, such a policy would support current efforts underway at all Nevada institutions to encourage timely degree completion in an environment of limited resources as well as send a strong message to the state and other stakeholders about the seriousness of such efforts NSHE-wide.

Recommendation #6: Increase State Funding for Financial Aid

As Nevada focuses increasingly on creating policies to encourage degree completion, it is becoming more and more apparent that financial aid policy cannot be considered in isolation from other state policies and practices. Likewise, it seems clear from models in other states that a consistent state-wide policy to ensure that all students have the chance to attend college has the greatest positive effect on student completion rates. This Committee made the first steps in recommending changes that integrate NSHE tuition and fee policy with financial aid policy. One missing element from the Nevada puzzle is a clear commitment from the state to provide a stable and adequate source of funding for need-based financial aid. These concerns lead to a recommendation that the Board of Regents, in budget preparations for future legislative sessions, request state general fund dollars for a need-based financial aid program. Such a state-supported program is essential to ensure that all Nevadans have access to higher education.

Summary



These six recommendations form a complete package that is intended to ensure that higher education is within reach for all Nevadans and that NSHE colleges and universities are both accessible and affordable. Each recommendation will eventually require action by the Board of Regents and support from the Nevada Legislature. Pushing Nevada students to make wiser choices about courses, patterns of attendance and financial planning, these recommendations will help build a culture of completion that sustains and rewards these choices. Members of the Committee expressed their gratitude at the opportunity to make such recommendations to the Chancellor and shape the future of public higher education in Nevada.

Related Issues



Academic Advising

Tuition and fee and financial aid policies must be examined within the context of other related student success initiatives. There are many other factors that contribute to student success in higher education, and chief among them is academic advising. Academic advising is mandatory at most, but not all, institutions for incoming freshmen and particular cohorts of students (e.g. summer bridge students); however, for the majority of students, advising is optional each semester.

Advising is more than helping students to select courses or choose a major; it is a deeply human process of building relationships with students and helping them to align their personal strengths, life goals, and career opportunities. Helping students select a path that holds the most meaning to them will lead to better academic progress, enhanced focus, and higher rates of persistence and graduation. Primarily, the academic advising relationship offers students a personal point of contact for all of their needs at the institution. Advisors are on the front lines of student issues; they are trained to help students overcome many of the most salient obstacles to graduation. Helping a student to choose a personally-meaningful major, select an appropriate class schedule, find ways to get involved on campus, identify mental health needs, or adjust to a brand new environment are all a small part of the range of issues that academic advisors confront on a daily basis. Developing this type of important connection between students and campus officials early in their time at the institution stands out as a leading factor in student success.

In addition to academic advising, the Committee discussed at length the many challenges related to financial aid and financial literacy. Therefore, it may be prudent for institutions to consider augmented financial counseling and First-Year Experience and Freshman Seminar courses or similar advising opportunities that address students holistically and cover issues such as managing expenses

while in college, loan repayment, and even more basic issues having to do with navigating through life in general. For example, for many students their first financial aid check is the most money they have ever had at one time in their lives. These funds are meant to last an entire semester, but often students do not have experience with or knowledge of budgeting. Such students can clearly benefit from additional guidance.



The current resources allocated for academic advising at NSHE institutions are not adequate to ideally facilitate these crucial relationships. Enhancing NSHE's advising capabilities would require a considerable increase in resources for institutions, a possibility that seems unlikely given the current financial state of the System. Technology (the new NSHE student information system—PeopleSoft Campus Solutions) can be leveraged to make it easier for students to get advising and access to their academic advisement (degree audit) reports online, and institutions are currently at work making this happen. However, the critical nature of student advising cannot be overstated in any discussion concerning improving student success.

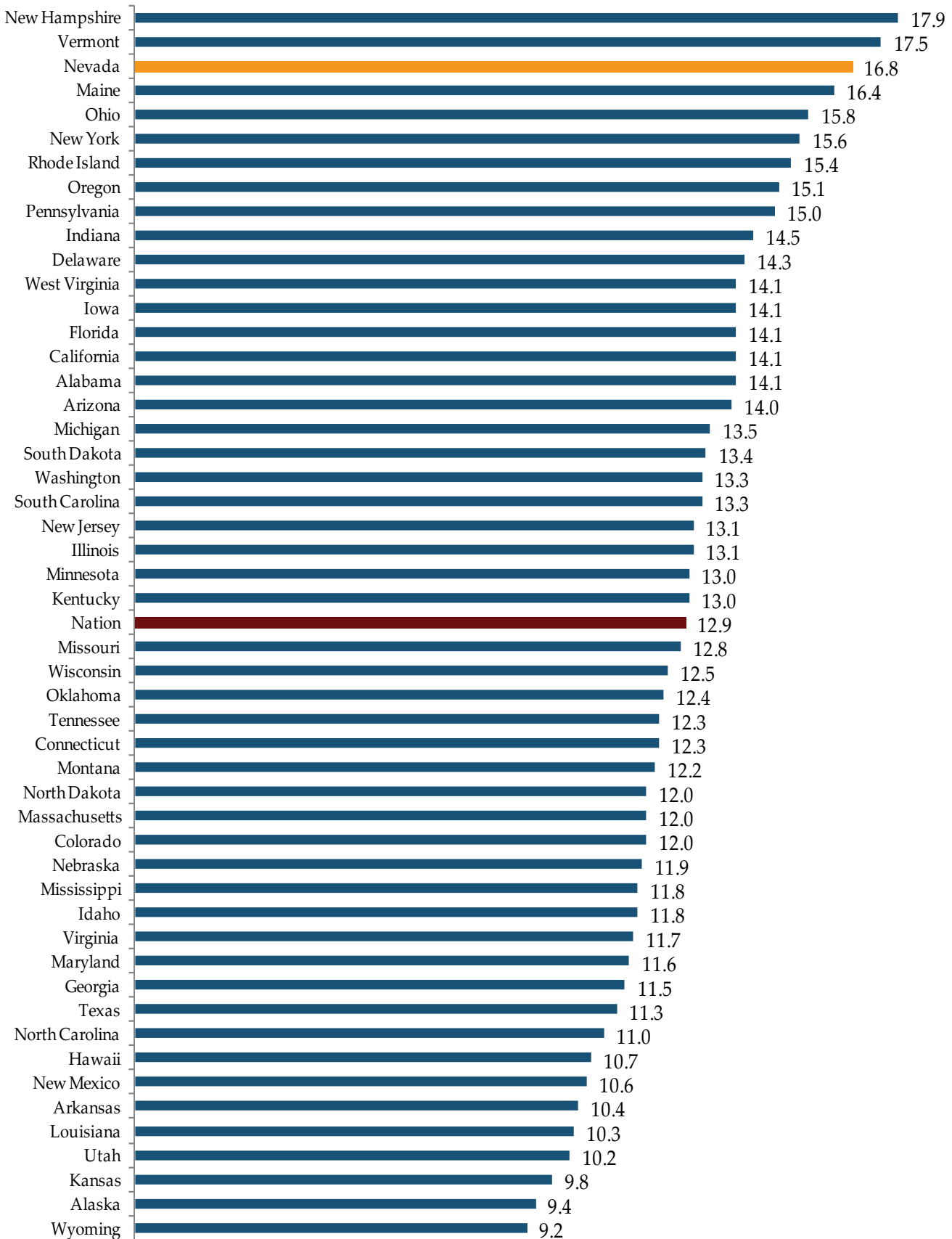
Guiding Students Through Choice

NSHE involvement in Complete College America provides a variety of resources for the System, including an annual meeting to which states are invited to send teams of participants. At a meeting in Denver in October 2011, the Nevada team received information concerning “student choice” as it relates to college completion. Attendees heard from Barry Schwartz, a professor of psychology at Swarthmore College. Dr. Schwartz discussed how too many choices can lead to paralysis and negatively affect college completion. When confronted with the myriad of choices in general education requirements, students have difficulty choosing the correct courses, simply because there are too many to choose from. Students face regret, a feeling of missed opportunities, increased expectations, and sometimes failure to live up to expectations. They are required to make life altering choices at a time when they may lack the wisdom to choose intelligently. Some students confront this problem by simply not making a choice—and thus not progressing towards their degree. The issue of too many choices can be particularly daunting for first-generation students, who often need more institutional support in making good academic decisions.

How can institutions help students to make effective choices that will help to keep them on track? As stated previously, proper academic advisement is a key strategy. Other strategies include reducing the number of general education courses from which to choose, as well as creating defined course taking patterns with little deviation. While the Committee did not have sufficient time to explore internal data or additional research concerning student choice, Committee members agreed the topic merits institutional consideration. By identifying critical success courses each step of the way, institutions can ensure that students are on track by quickly identifying those that fail to take a success course at the proper time, and provide interventions designed to help students get back on track. Awareness on the part of the institution about how choice affects students is a critical first step in all of these strategies.

APPENDIX A

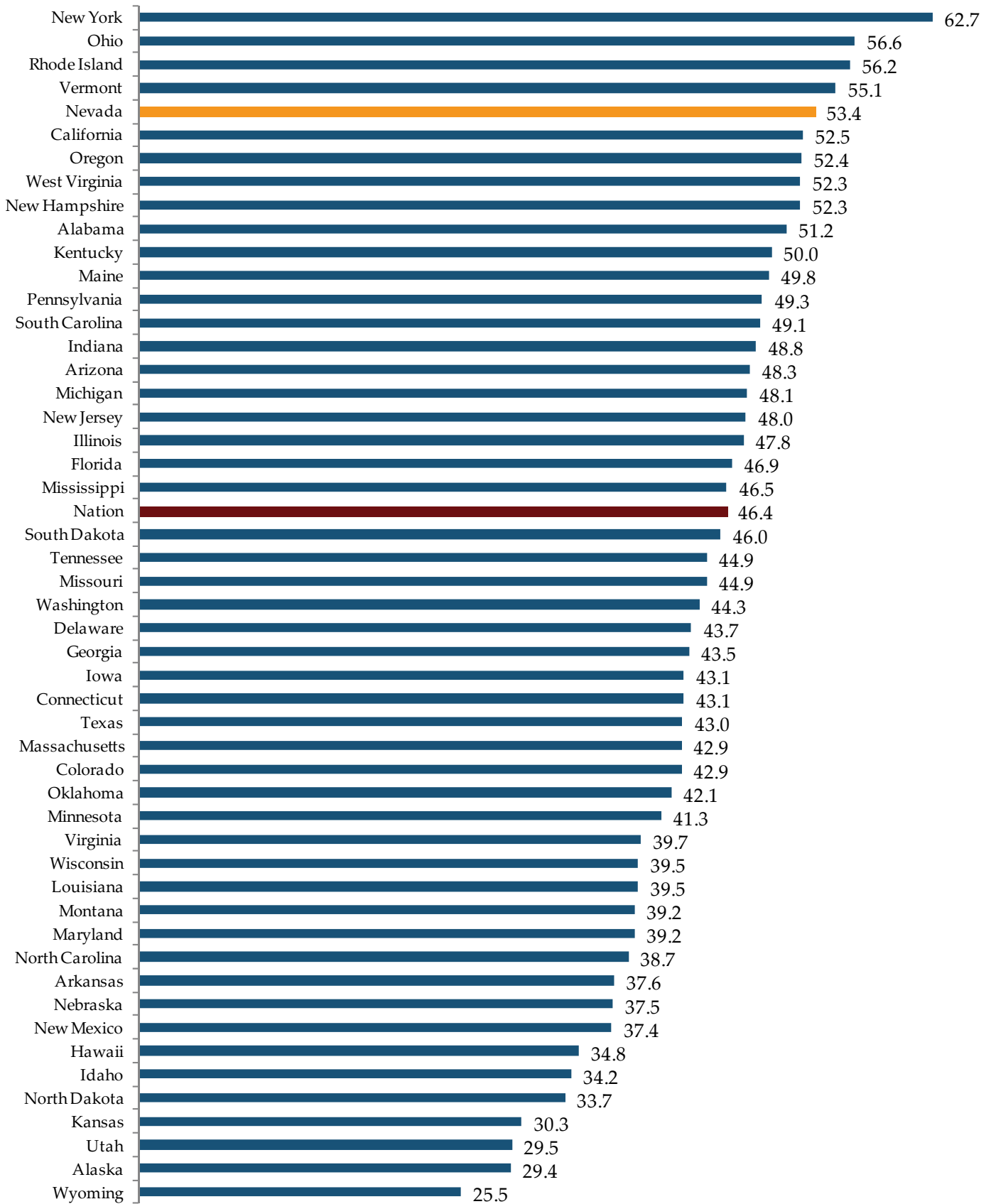
Percent of Median Family Income Needed to Pay for College: 2-Year Institutions, 2009



Source: NCES, IPEDS

APPENDIX B

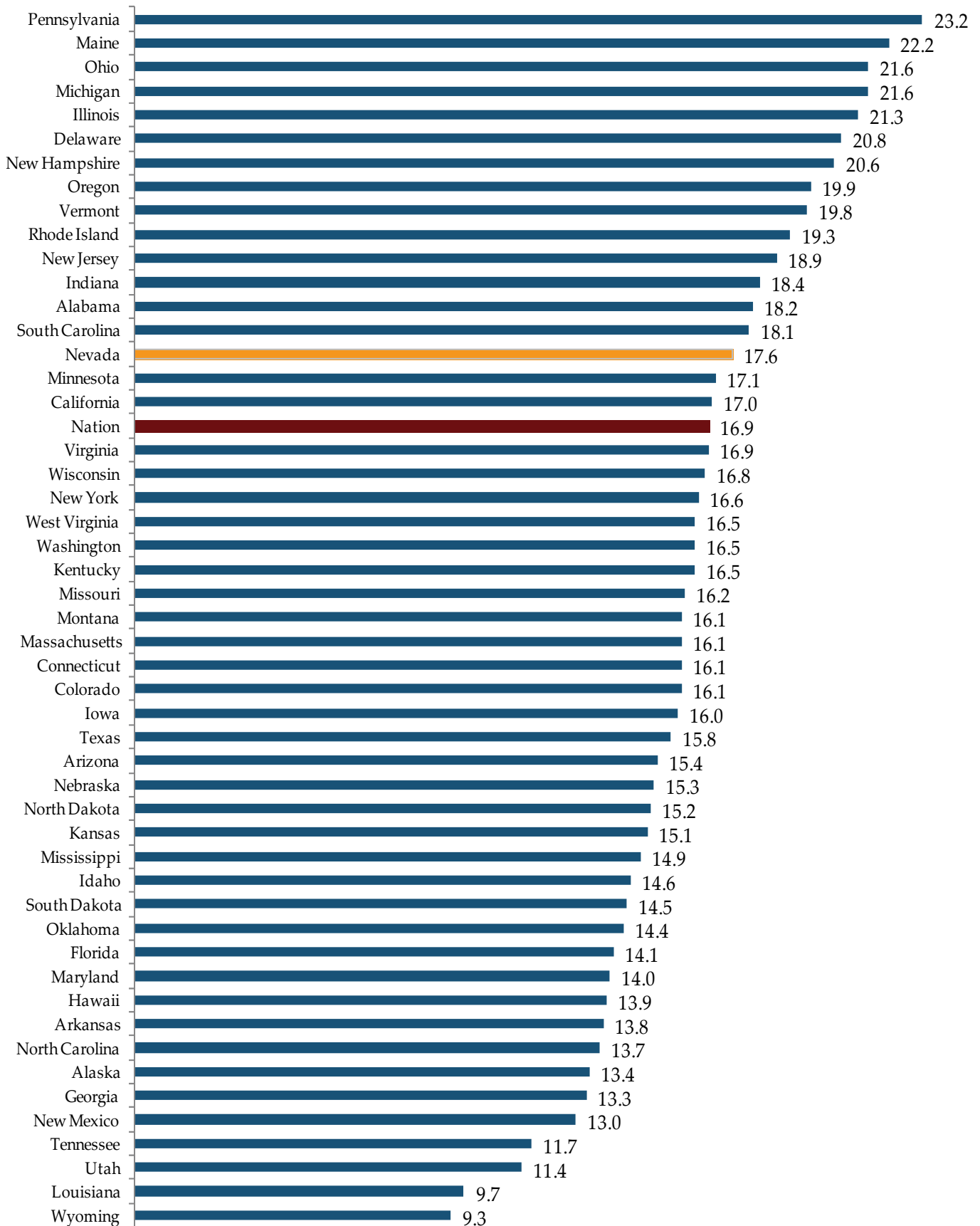
Percent of Family Income from the Lowest Quintile Needed to Pay for College: 2-year Institutions, 2009



Source: NCES, IPEDS

APPENDIX C

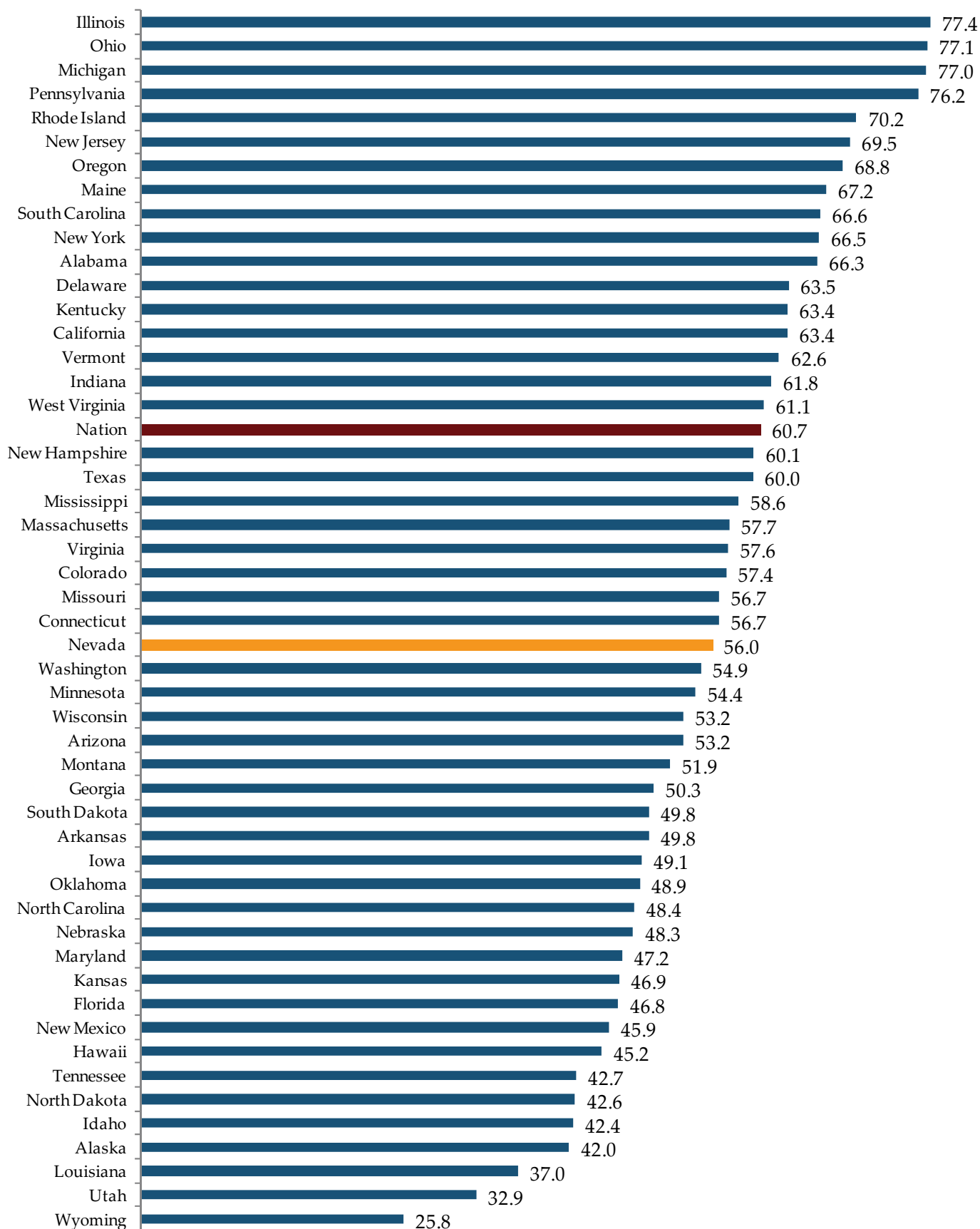
Percent of Median Family Income Needed to Pay for College: 4-year Institutions, 2009



Source: NCES, IPEDS

APPENDIX D

Percent of Family Income from the Lowest Quintile Need to Pay for College: 4-year Institutions, 2009



Source: NCES, IPEDS

APPENDIX E

Percent of Graduates Among Full- and Part-Time First-Time Degree Seeking Students All Students vs. Financial Aid Recipients, 2004-05 Cohort

		All Students			Pell and/or Student Access		
		4-Year Institutions					
		2004-05 Cohort	Bach by Aug 2010	% Rcvd Degree	2004-05 Cohort	Bach by Aug 2010	% Rcvd Degree
UNLV		3,674	1,466	39.9%	1,065	470	44.1%
	F/T	3,098	1,359	43.9%	897	431	48.0%
	P/T	576	107	18.6%	168	39	23.2%
	% F/T	84.3%	92.7%		84.2%	91.7%	
UNR		2,267	1,205	53.2%	572	302	52.8%
	F/T	2,214	1,200	54.2%	565	301	53.3%
	P/T	53	5	9.4%	7	1	14.3%
	% F/T	97.7%	99.6%		98.8%	99.7%	
NSC		143	19	13.3%	43	8	18.6%
	F/T	87	16	18.4%	27	6	22.2%
	P/T	56	3	5.4%	16	2	12.5%
	% F/T	60.8%	84.2%		62.8%	75.0%	
		2-Year Institutions					
		2004-05 Cohort	Cert, Assoc, or Bach by Aug 2010	% Rcvd Degree	2004-05 Cohort	Cert, Assoc, or Bach by Aug 2010	% Rcvd Degree
CSN		6,882	774	11.2%	2,228	168	7.5%
	F/T	1,268	265	20.9%	349	53	15.2%
	P/T	5,614	509	9.1%	1,879	115	6.1%
	% F/T	18.4%	34.2%		15.7%	31.5%	
GBC		441	94	21.3%	134	36	26.9%
	F/T	201	62	30.8%	72	23	31.9%
	P/T	240	32	13.3%	62	13	21.0%
	% F/T	45.6%	66.0%		53.7%	63.9%	
TMCC		2,067	332	16.1%	495	86	17.4%
	F/T	417	133	31.9%	119	31	26.1%
	P/T	1,650	199	12.1%	376	55	14.6%
	% F/T	20.2%	40.1%		24.0%	36.0%	
WNC		954	125	13.1%	229	43	18.8%
	F/T	298	75	25.2%	92	24	26.1%
	P/T	656	50	7.6%	137	19	13.9%
	% F/T	31.2%	60.0%		40.2%	55.8%	

APPENDIX F

New students in 2004-05. Did not graduate from ANY institution and not enrolled Fall 2011.
Total aid received during all terms of enrollment.

	Count of Students Received Loans	Long-term Loans Received	Count of Students Received Aid (Excluding Loans)	Total Aid Received (Excluding Loans)	Total Aid and Loans - Count	Total Aid and Loans
CSN	379	\$3,046,015	3,639	\$5,311,323	3,708	\$8,357,338
FT	64	\$492,382	451	\$1,305,065	463	\$1,797,447
PT	315	\$2,553,632	3,188	\$4,006,258	3,245	\$6,559,891
% FT	16.9%	16.2%	12.4%	24.6%	12.5%	21.5%
GBC	36	\$193,028	175	\$602,805	175	\$795,833
FT	18	\$99,469	88	\$313,133	88	\$412,602
PT	18	\$93,559	87	\$289,672	87	\$383,231
% FT	50.0%	51.5%	50.3%	51.9%	50.3%	51.8%
TMCC	164	\$1,035,467	708	\$1,577,148	752	\$2,612,615
FT	47	\$373,341	145	\$554,798	155	\$928,139
PT	117	\$662,126	563	\$1,022,349	597	\$1,684,475
% FT	28.7%	36.1%	20.5%	35.2%	20.6%	35.5%
WNC	44	\$278,820	471	\$824,126	481	\$1,102,946
FT	24	\$117,170	135	\$316,170	141	\$433,340
PT	20	\$161,650	336	\$507,956	340	\$669,606
% FT	54.5%	42.0%	28.7%	38.4%	29.3%	39.3%
NSHE Community Colleges Total	623	\$4,553,330	4,993	\$8,315,402	5,116	\$12,868,732
FT	153	\$1,082,362	819	\$2,489,167	847	\$3,571,529
PT	470	\$3,470,968	4,174	\$5,826,236	4,269	\$9,297,203
% FT	24.6%	23.8%	16.4%	29.9%	16.6%	27.8%

New students in 2004-05. Graduated or still enrolled AT ANY INSTITUTION (as of Fall 2011).
Total aid received during all terms of enrollment.

	Count of Students Received Loans	Long-term Loans Received	Count of Students Received Aid (Excluding Loans)	Total Aid Received (Excluding Loans)	Total Aid and Loans - Count	Total Aid and Loans
CSN	225	\$2,563,237	1,318	\$4,327,636	1,362	\$6,890,874
FT	63	\$754,186	364	\$1,468,165	378	\$2,222,351
PT	162	\$1,809,051	954	\$2,859,471	984	\$4,668,523
% FT	28.0%	29.4%	27.6%	33.9%	27.8%	32.3%
GBC	33	\$239,266	131	\$949,324	131	\$1,188,590
FT	15	\$84,252	76	\$510,635	76	\$594,887
PT	18	\$155,014	55	\$438,689	55	\$593,703
% FT	45.5%	35.2%	58.0%	53.8%	58.0%	50.0%
TMCC	142	\$1,333,671	488	\$2,129,875	510	\$3,463,546
FT	31	\$249,458	156	\$663,024	160	\$912,482
PT	111	\$1,084,213	332	\$1,466,851	350	\$2,551,064
% FT	21.8%	18.7%	32.0%	31.1%	31.4%	26.3%
WNC	55	\$495,067	246	\$1,182,906	251	\$1,677,973
FT	25	\$222,517	105	\$566,243	107	\$788,760
PT	30	\$272,550	141	\$616,663	144	\$889,213
% FT	45.5%	44.9%	42.7%	47.9%	42.6%	47.0%
NSHE Community Colleges Total	455	\$4,631,241	2,183	\$8,589,742	2,254	\$13,220,983
FT	134	\$1,310,413	701	\$3,208,067	721	\$4,518,480
PT	321	\$3,320,828	1482	\$5,381,675	1,533	\$8,702,502
% FT	29.5%	28.3%	32.1%	37.3%	32.0%	34.2%

APPENDIX G

New students in 2004-05. Did not graduate from ANY institution and not enrolled Fall 2011.

Total aid received during all terms of enrollment.

	Count of Students Received Loans	Long-term Loans Received	Count of Students Received Aid (Excluding Loans)	Total Aid Received (Excluding Loans)	Total Aid and Loans - Count	Total Aid and Loans
UNLV	441	\$5,670,211	1,091	\$5,825,670	1,190	\$11,495,881
FT	353	\$4,584,895	917	\$5,081,096	991	\$9,665,991
PT	88	\$1,085,316	174	\$744,574	199	\$1,829,890
% FT	80.0%	80.9%	84.1%	87.2%	83.3%	84.1%
UNR	164	\$1,701,081	490	\$3,187,792	506	\$4,888,873
FT	162	\$1,634,051	484	\$3,171,169	499	\$4,805,220
PT	2	\$67,030	6	\$16,623	7	\$83,653
% FT	98.8%	96.1%	98.8%	99.5%	98.6%	98.3%
NSC						
FT	46	\$339,090	97	\$260,356	115	\$599,446
PT	21	\$125,008	53	\$150,397	60	\$275,405
% FT	25	\$214,082	44	\$109,959	55	\$324,041
	45.7%	36.9%	54.6%	57.8%	52.2%	45.9%
NSHE 4-year Institutions Total						
	651	\$7,710,382	1,678	\$9,273,818	1,811	\$16,984,200
FT	536	\$6,343,954	1,454	\$8,402,662	1,550	\$14,746,616
PT	115	\$1,366,428	224	\$871,156	261	\$2,237,584
% FT	82.3%	82.3%	86.7%	90.6%	85.6%	86.8%

New students in 2004-05. Graduated or still enrolled AT ANY INSTITUTION (as of Fall 2011).

Total aid received during all terms of enrollment.

	Count of Students Received Loans	Long-term Loans Received	Count of Students Received Aid (Excluding Loans)	Total Aid Received (Excluding Loans)	Total Aid and Loans - Count	Total Aid and Loans
UNLV	808	\$19,339,798	1,826	\$20,152,767	1,951	\$39,492,564
FT	706	\$17,418,145	1,648	\$18,661,123	1,750	\$36,079,268
PT	102	\$1,921,653	178	\$1,491,644	201	\$3,413,297
% FT	87.4%	90.1%	90.3%	92.6%	89.7%	91.4%
UNR	606	\$11,248,247	1,580	\$22,801,347	1,593	\$34,049,594
FT	602	\$11,216,278	1,572	\$22,739,521	1,584	\$33,955,799
PT	4	\$31,969	8	\$61,826	9	\$93,795
% FT	99.3%	99.7%	99.5%	99.7%	99.4%	99.7%
NSC						
FT	30	\$375,665	54	\$290,618	62	\$666,283
PT	12	\$151,932.00	28	\$164,370.00	29	\$316,302.00
% FT	18	\$223,733.00	26	\$126,248.00	33	\$349,981.00
	40.0%	40.4%	51.9%	56.6%	46.8%	47.5%
NSHE 4-year Institutions Total						
	1,444	\$30,963,710	3,460	\$43,244,732	3,606	\$74,208,441
FT	1,320	\$28,786,355	3,248	\$41,565,014	3,363	\$70,351,369
PT	124	\$2,177,355	212	\$1,679,718	243	\$3,857,073
% FT	91.4%	93.0%	93.9%	96.1%	93.3%	94.8%

APPENDIX H

Western Interstate Commission for Higher Education (WICHE) Member States

Alaska
Arizona
California
Colorado
Hawaii
Idaho
Montana
Nevada
New Mexico
North Dakota
Oregon
South Dakota
Utah
Washington

For more information, visit: www.wiche.edu

APPENDIX B

**UNITED STATES DEPARTMENT OF EDUCATION
WASHINGTON, D.C. 20006
APPLICATION FOR DESIGNATION AS AN ELIGIBLE INSTITUTION
FISCAL YEAR 2012**

CFDA Number: **031H**

To apply for grants under
Title III Programs (SIP), (TCCU), (ANNH), (AANAPISI),
Title V Programs (HSI-STEM and ARTICULATION), (PPOHA)
and the Predominately Black Institutions (PBI) Programs
Authority: 34 CFR Part 606 and 607 Programs

**Important: You are required to provide the information requested
in order to obtain or retain a benefit.**

According to the Paperwork reduction Act of 1995, no persons are required to respond to a collection of information unless such collection displays a valid OMB control number. The valid OMB control number for this information collection is 1840-0103. The time required to complete this information collection is estimated to average 7.00 hours (or minutes) per response, including the time to review instructions, search existing data resources, gather the data needed, and complete and review the information collection. If you have any comments concerning the accuracy of the time estimate(s) or suggestions for improving this form, please write to: U.S. Department of Education, Washington, D.C. 20202-4561. If you have comments or concerns regarding the status of your individual submission for this form, write directly to: Institutional Development and Undergraduate Education Service, U.S. Department of Education, 600 Independence Avenue, S.W., (1990 K Street, N.W., 6th Floor), Washington, DC 20202-8513.

*** This form must be completed electronically.**

Part I. Identity of Applicant Institution

1. Institution/Campus OPE ID Number:
2. Name of Institution/Campus Requesting:
3. Address (Street # or P.O. Box and Street Name, City, State, Zip):
4. Contact Person's Name: (Last Name, First Name, Middle Initial):
5. Contact Person's Title, Phone Number, Extension:
6. E-mail Address:
7. Data Universal Numbering System (DUNS Number):
8. Type (mark one): () 2-Year Institution () 4-Year Institution
9. Control (mark one): () Private Non-Profit Institution () Public Institution

Part II. Institutional Enrollment

1. Total Institutional Enrollment (Fall 2009 Head Count):
2. Total Minority Enrollment (Fall 2009 Head Count):

Part III. Institutional Statistics

1. Needy Student Requirement

- A. Fall 2009 Head Count Enrollment of Undergraduate and Graduate Degree Students:
- B. Fall 2009 Recipients of Title IV Need-Based Financial Assistance:
(Include Only Pell Grant, Supplemental Educational Opportunity Grant, College Work Study, and Perkins Loan)
- C. Fall 2009 Enrollment of Half-Time up to and including Full-Time Undergraduate Students:
- D. Fall 2009 Pell Grant Recipients:

2. Educational & General Expenditures Requirement (E&G)

- A. Undergraduate Full-Time Equivalent Fall 2009 Enrollment
- Total Full-Time Undergraduate Students:
 - Total Number of Credit Hours for all Part-Time Undergraduate Students:
- B. Graduate Full-Time Equivalent Fall 2009 Enrollment:
- Total Full-Time Graduate Students:
 - Total Number of Credit Hours for all Part-Time Graduate Students:
- C. Total 2009-2010 Educational & General Expenditures (E&G):
- D. Average 2009-2010 E&G per FTE = $C/(A+B)$:

Part IV. Specific Institutional Eligibility Requirements**1. Needy Student Requirement (mark A, B, or C)**

- ☐ A. According to the result, after dividing item 1B by item 1A in Part III of this form, at least 50% of Degree Students are recipients of Need-Based Financial Support; or
- ☐ B. According to the result, after dividing item 1D by item 1C in Part III of this form, our enrollment exceeds the pertinent threshold for Substantial Percentage of Students Receiving Pell Grants for the 2009-2010 year.
- ☐ C. Requesting Waiver (Section 607.3(b) and Section 606.3(b) option(s):
Fill in the bubble(s) needed and attach the narrative justification to this form.

AND**2. Educational & General Expenditures Requirement (mark A or B)**

- ☐ A. The E&G expenditures per FTE Student are less than the pertinent threshold for base year 2009-2010.
- ☐ B. Requesting Waiver (Section 607.4(c) and (d) and Section 606.4(c) and (d) option(s):
Fill in the bubble(s) needed and attach the narrative justification to this form.

Part V. Certification

(Although this Certification requirement is waived for applicants submitting through the Internet, the Department reserves the right to require a signed form on request.)

To the best of my knowledge and belief, all data in this application are true and correct. The governing body of the applicant has duly authorized this document and the applicant will comply with the required assurances. We meet the accrediting requirements and, if applicable, we meet the definition of a branch campus as defined in 34 CFR Part 606.7(b) and 34 CFR 607.7(e).

Authorized Representative's Typed Name and Title Date Authorized Representative's Signature

Phone Number
(applicable)

Fax Number

Former Name of Applicant Institution/Campus (if applicable)

APPENDIX C

UNIVERSITY PERFORMANCE OUTCOMES AND POINTS (2010-11)

OUTCOMES	Weights	UNLV	UNLV Weighted Pts.	UNR	UNR Weighted Pts.	Total Weighted Points
Bachelor's Degrees	40%	3,771	1,508.4	2,412	964.8	2,473.2
Master's and Doctoral Degrees	15%	1,427	214.1	748	112.2	326.3
Sponsored/External Research Expenditures in \$100,000's	15%	497.3	74.6	937.6	140.6	215.2
Transfer Students w/a transferable associate's degree	5%	967	48.4	1,055	52.8	101.1
Efficiency - Awards per 100 FTE	5%	26.4	1.3	23.8	1.2	2.5
At Risk Graduates (minority and low income)	5%	2,218	110.9	770	38.5	149.4
Economic Development (STEM and Allied Health) Graduates	15%	857	128.6	1,009	151.4	279.9
TOTAL WEIGHTED POINTS	100%	--	2,086.2	--	1,461.4	3,547.6
DISTRIBUTION OF POINTS			58.8%		41.2%	100.0%

NSC PERFORMANCE OUTCOMES AND POINTS (2010-11)

OUTCOMES	Weights	NSC	NSC Weighted Pts.
Bachelor's Degrees	60%	262	157.2
At Risk Graduates (minority and low income)	10%	153	15.3
Gateway Course Completers	5%	123	6.2
Transfer Students w/a transferable associate's degree	5%	277	13.9
Efficiency - Awards per 100 FTE	5%	13.0	0.7
Economic Development (STEM and Allied Health) Graduates	15%	118	17.7
TOTAL WEIGHTED POINTS	100%	--	210.9

COMMUNITY COLLEGE OUTCOMES AND POINTS (2010-11)

OUTCOMES	Weights (except TMCC)	TMCC Weights	CSN	CSN Weighted Pts.	GBC	GBC Weighted Pts.	TMCC	TMCC Weighted Pts.	WNC	WNC Weighted Pts.	Total Weighted Points
1 to 2 Year Certificate	15%	15%	221	33.2	192	28.8	60	9.0	33	5.0	75.9
Workforce Recognized Certificates	TBD	TBD	--	--	--	--	--	--	--	--	--
Associate's Degrees	30%	35%	2,030	609.0	249	74.7	1,082	378.7	450	135.0	1,197.4
Bachelor's Degrees	5%	n/a	20	1.0	55	2.8	N/A	N/A	11	0.6	4.3
Transfer Students w/24 credits or associate's degree	10%	10%	2,439	243.9	35	3.5	1,332	133.2	189	18.9	399.5
Efficiency - Awards per 100 FTE	5%	5%	10.3	0.5	19.8	1.0	17.6	0.9	16.9	0.8	3.2
Gateway Course Completers	10%	10%	2,117	211.7	297	29.7	1,390	139.0	604	60.4	440.8
At Risk Graduates (minority and low income)	10%	10%	1,367	136.7	205	20.5	688	68.8	290	29.0	255.0
Economic Development (STEM and Allied Health) Graduates	15%	15%	743	111.5	55	8.3	160	24.0	114	17.1	160.8
TOTAL WEIGHTED POINTS	100%	100%	--	1,347.4	--	169.2	--	753.6	--	266.7	2,536.9
DISTRIBUTION OF POINTS				53.1%		6.7%		29.7%		10.5%	100.0%

Outcome	Definitions
1 to 2 year Certificate	The total number of certificates requiring 30 or more credit hours granted during an academic year. Students earning multiple certificates in an academic year will have each earned certificate count as a separate outcome.
Workforce Recognized Certificates	The total number of certificates recognized by industry. This outcome is being developed as NSHE works with the institutions and national organizations to identify the appropriate workforce certificates in the category of less than one-year training.
Associate's Degrees	The total number of associate's degrees conferred during an academic year. Students earning multiple degrees in an academic year will have each earned degree count as a separate outcome.
Bachelor's Degrees	The total number of bachelor's degrees conferred during an academic year. Students earning multiple degrees in an academic year will have each earned degree count as a separate outcome.
Master's Degrees	The total number of master's degrees conferred during an academic year. Students earning multiple degrees in an academic year will have each earned degree count as a separate outcome.
Doctoral Degrees	The total number of doctoral degrees conferred during an academic year. First-professional degrees (medical, dental, law) are not included. Students earning multiple degrees in an academic year will have each earned degree count as a separate outcome.
At-Risk Graduates (minority and low income)	Total unduplicated number of minority or Pell grant eligible students who graduated during an academic year with a certificate, associate's or bachelor's degree.
Transfer Students w/a Transferable Associate's Degree	Total number of students transferred to a 4-year institution with a transferable associate's degree from an NSHE community college.
Transfer Students w/24 credits or Associate's Degree	The total number of students who enrolled at a four -year institution during the fall or spring semester of a given reporting year who had earned at least 24 credits or a transferable associate's degree at a community college prior to the reporting year. Students are excluded if they are co-enrolled at a 4-year institution and a 2-year institution during the term in which they otherwise would have been included as a transfer student. (Excludes courses from the 24 credit count if the grades are AU, AD, NR, ND, X, I, F, U, W.)
Efficiency - Awards per 100 FTE	The number of bachelor's, master's and doctoral awards per 100 FTE at 4-year institutions and the number of certificates, associate's and bachelor's (where applicable) per 100 FTE at the 2-year institutions.
Sponsored/External Research Expenditures	The total amount expended on sponsored programs/projects of research and other scholarly activities for the fiscal year. This amount includes federal, federal pass-through, State of Nevada, other state and local government, private for-profit, private non-profit. Other scholarly activity includes the instructional, public service, student services, and "other" functional grant categories, including workforce development. The figures exclude the scholarship/fellowship category.
Gateway Course Completers	The total number of students who successfully completed a college-level English or mathematics course (grad C- and above) in the reporting year who completed at least one remedial course in the same subject area in the prior two semesters. Students remediated in more than one subject area and completing the college level course in more than one subject area will be counted for both outcomes.
STEM and Allied Health Graduates	Total number of certificates, associate's, bachelor's, master's, or doctoral degrees awarded (first professional awards are excluded) in an academic year based on CIP codes for STEM and health professionals as identified by NCHEMS for the NGA metrics. (CIPs: 4 - architecture and related services; 11 - computer and information sciences and support services; 14 - engineering; 15 - engineering technologies/technicians; 26 - biological and biomedical sciences; 27 - mathematics and statistics; 40 - physical sciences; 41 - science technologies/technicians; and 51 - health professions and related clinical sciences)

NSHE PERFORMANCE POOL MODEL FOR CONSIDERATION (v20)

UNIVERSITY PERFORMANCE OUTCOMES AND POINTS (2010-11)

OUTCOMES	Weights	UNLV	UNLV Weighted Pts.	UNR	UNR Weighted Pts.	Total Weighted Points
Bachelor's Degrees	40%	3,771	1,508.4	2,412	964.8	2,473.2
Master's and Doctoral Degrees	10%	1,427	142.7	748	74.8	217.5
Sponsored/External Research Expenditures in \$100,000's	15%	497.3	74.6	937.6	140.6	215.2
Transfer Students w/a transferable associate's degree	5%	967	48.4	1,055	52.8	101.1
Efficiency - Awards per 100 FTE	10%	26.4	2.6	23.8	2.4	5.0
At Risk Graduates (minority and low income)	5%	2,218	110.9	770	38.5	149.4
Economic Development (STEM and Allied Health) Graduates	15%	857	128.6	1,009	151.4	279.9
TOTAL WEIGHTED POINTS	100%	--	2,016.1	--	1,425.2	3,441.4
DISTRIBUTION OF POINTS			58.6%		41.4%	100.0%

NSC PERFORMANCE OUTCOMES AND POINTS (2010-11)

OUTCOMES	Weights	NSC	NSC Weighted Pts.
Bachelor's Degrees	60%	262	157.2
At Risk Graduates (minority and low income)	5%	153	7.7
Gateway Course Completers	5%	831	41.6
Transfer Students w/a transferable associate's degree	5%	277	13.9
Efficiency - Awards per 100 FTE	10%	13.0	1.3
Economic Development (STEM and Allied Health) Graduates	15%	118	17.7
TOTAL WEIGHTED POINTS	100%	--	239.3

COMMUNITY COLLEGE OUTCOMES AND POINTS (2010-11)

OUTCOMES	Weights (except TMCC)	TMCC Weights	CSN	CSN Weighted Pts.	GBC	GBC Weighted Pts.	TMCC	TMCC Weighted Pts.	WNC	WNC Weighted Pts.	Total Weighted Points
1 to 2 Year Certificate	15%	15%	221	33.2	192	28.8	60	9.0	33	5.0	75.9
Workforce Recognized Certificates	TBD	TBD	--	--	--	--	--	--	--	--	--
Associate's Degrees	30%	35%	2,030	609.0	249	74.7	1,082	378.7	450	135.0	1,197.4
Bachelor's Degrees	5%	n/a	20	1.0	55	2.8	N/A	N/A	11	0.6	4.3
Transfer Students w/24 credits or associate's degree	10%	10%	2,439	243.9	35	3.5	1,332	133.2	189	18.9	399.5
Efficiency - Awards per 100 FTE	10%	10%	10.3	1.0	19.8	2.0	17.6	1.8	16.9	1.7	6.5
Gateway Course Completers	10%	10%	12,377	1237.7	1,050	105.0	4,064	406.4	1,530	153.0	1,902.1
At Risk Graduates (minority and low income)	5%	5%	1,367	68.4	205	10.3	688	34.4	290	14.5	127.5
Economic Development (STEM and Allied Health) Graduates	15%	15%	743	111.5	55	8.3	160	24.0	114	17.1	160.8
TOTAL WEIGHTED POINTS	100%	100%	--	2,305.6	--	235.2	--	987.5	--	345.7	3,874.0
DISTRIBUTION OF POINTS				59.5%		6.1%		25.5%		8.9%	100.0%

Outcome	Definitions
1 to 2 year Certificate	The total number of certificates requiring 30 or more credit hours granted during an academic year. Students earning multiple certificates in an academic year will have each earned certificate count as a separate outcome.
Workforce Recognized Certificates	The total number of certificates recognized by industry. This outcome is being developed as NSHE works with the institutions and national organizations to identify the appropriate workforce certificates in the category of less than one-year training.
Associate's Degrees	The total number of associate's degrees conferred during an academic year. Students earning multiple degrees in an academic year will have each earned degree count as a separate outcome.
Bachelor's Degrees	The total number of bachelor's degrees conferred during an academic year. Students earning multiple degrees in an academic year will have each earned degree count as a separate outcome.
Master's Degrees	The total number of master's degrees conferred during an academic year. Students earning multiple degrees in an academic year will have each earned degree count as a separate outcome.
Doctoral Degrees	The total number of doctoral degrees conferred during an academic year. First-professional degrees (medical, dental, law) are not included. Students earning multiple degrees in an academic year will have each earned degree count as a separate outcome.
At-Risk Graduates (minority and low income)	Total unduplicated number of minority or Pell grant eligible students who graduated during an academic year with a certificate, associate's or bachelor's degree.
Transfer Students w/a Transferable Associate's Degree	Total number of students transferred to a 4-year institution with a transferable associate's degree from an NSHE community college.
Transfer Students w/24 credits or Associate's Degree	The total number of students who enrolled at a four -year institution during the fall or spring semester of a given reporting year who had earned at least 24 credits or a transferable associate's degree at a community college prior to the reporting year. Students are excluded if they are co-enrolled at a 4-year institution and a 2-year institution during the term in which they otherwise would have been included as a transfer student. (Excludes courses from the 24 credit count if the grades are AU, AD, NR, ND, X, I, F, U, W.)
Efficiency - Awards per 100 FTE	The number of bachelor's, master's and doctoral awards per 100 FTE at 4-year institutions and the number of certificates, associate's and bachelor's (where applicable) per 100 FTE at the 2-year institutions.
Sponsored/External Research Expenditures	The total amount expended on sponsored programs/projects of research and other scholarly activities for the fiscal year. This amount includes federal, federal pass-through, State of Nevada, other state and local government, private for-profit, private non-profit. Other scholarly activity includes the instructional, public service, student services, and "other" functional grant categories, including workforce development. The figures exclude the scholarship/fellowship category.
Gateway Course Completers	The total number of students (unduplicated) who successfully completed a college-level English or mathematics course (grad C- and above) in the reporting year.
STEM and Allied Health Graduates	Total number of certificates, associate's, bachelor's, master's, or doctoral degrees awarded (first professional awards are excluded) in an academic year based on CIP codes for STEM and health professionals as identified by NCHEMS for the NGA metrics. (CIPs: 4 - architecture and related services; 11 - computer and information sciences and support services; 14 - engineering; 15 - engineering technologies/technicians; 26 - biological and biomedical sciences; 27 - mathematics and statistics; 40 - physical sciences; 41 - science technologies/technicians; and 51 - health professions and related clinical sciences)

APPENDIX D

APPENDIX D

Response to question 11 from the July 27, 2012 meeting of the Committee to Study the Funding of Higher Education

General Fund Appropriation Expended per Annual Average Student Full Time Equivalent Enrollment (AASFTE)

NSHE Community Colleges - State-Supported Operating Budgets

Fiscal Years 2009, 2010, 2011 and 2012

Area	General Fund FY 2009	AASFTE FY 2009	GF/AASFTE FY 2009	General Fund FY 2010	AASFTE FY 2010	GF/AASFTE FY 2010	General Fund FY 2011	AASFTE FY 2011	GF/AASFTE FY 2011	General Fund FY 2012	AASFTE FY 2012	GF/AASFTE FY 2012
CSN	\$ 94,074,016	21,042	\$ 4,471	\$ 95,791,740	22,027	\$ 4,349	\$ 90,154,454	22,153	\$ 4,070	\$ 77,587,864	20,363	\$ 3,810
GBC	\$ 16,180,487	1,786	\$ 9,060	\$ 16,961,405	1,994	\$ 8,506	\$ 16,289,694	1,939	\$ 8,401	\$ 14,031,554	1,742	\$ 8,055
TMCC	\$ 39,416,369	6,796	\$ 5,800	\$ 37,289,646	7,307	\$ 5,103	\$ 35,258,553	7,125	\$ 4,949	\$ 30,603,292	6,351	\$ 4,819
WNC	\$ 19,956,417	2,489	\$ 8,018	\$ 19,251,676	2,888	\$ 6,666	\$ 18,204,411	2,930	\$ 6,213	\$ 15,029,964	2,358	\$ 6,374

Total Revenues (GF, registration fees, non-resident tuition, misc student fee & investment income) Expended per Annual Average Student Full Time Equivalent Enrollment (AASFTE)

NSHE Community Colleges - State-Supported Operating Budgets

Fiscal Years 2009, 2010, 2011 and 2012

Area	Total Budget FY 2009	AASFTE FY 2009	REVS/AASFTE FY 2009	Total Budget FY 2010	AASFTE FY 2010	REVS/AASFTE FY 2010	Total Budget FY 2011	AASFTE FY 2011	REVS/AASFTE FY 2011	Total Budget FY 2012	AASFTE FY 2012	REVS/AASFTE FY 2012
CSN	\$ 128,052,249	21,042	\$ 6,086	\$ 131,435,327	22,027	\$ 5,967	\$ 130,782,795	22,153	\$ 5,904	\$ 123,873,125	20,363	\$ 6,083
GBC	\$ 18,761,746	1,786	\$ 10,505	\$ 19,842,495	1,994	\$ 9,951	\$ 19,514,901	1,939	\$ 10,064	\$ 17,807,116	1,742	\$ 10,222
TMCC	\$ 49,604,711	6,796	\$ 7,299	\$ 48,064,801	7,307	\$ 6,578	\$ 47,249,615	7,125	\$ 6,632	\$ 44,234,343	6,351	\$ 6,965
WNC	\$ 23,370,211	2,489	\$ 9,389	\$ 23,327,369	2,888	\$ 8,077	\$ 23,044,903	2,930	\$ 7,865	\$ 20,560,223	2,358	\$ 8,719

General Fund Appropriation Allocation per Annual Average Student Full Time Equivalent Enrollment (AASFTE) Under the Alternative Funding Formula:

NSHE Community Colleges - State-Supported Operating Budgets

Fiscal Year 2012

Area	Total Budget FY 2012	AASFTE FY 2012	GF/AASFTE FY 2012
CSN	\$ 84,621,933	20,363	\$ 4,156
GBC	\$ 9,465,394	1,742	\$ 5,434
TMCC	\$ 27,718,921	6,351	\$ 4,364
WNC	\$ 10,485,236	2,358	\$ 4,447

Note: Fiscal Year's 2009, 2010 and 2011 are actual revenues and enrollments. Fiscal year 2012 is budgeted revenues (actuals not available) and actual enrollments

Note: Fiscal Year 2010 General Fund includes Federal Stabilization funds (ARRA)

APPENDIX E

APPENDIX E

UNIVERSITY OF NEVADA, RENO LAND GRANT FUNDS

**Title: Hatch Act Formula Funds
CFDA # 10.203**

Fiscal 2012 Revenues: \$1,529,149

Hatch Act Funds are provided to State Agricultural Experiment Stations for agricultural research including research on all aspects of agriculture, including soil and water conservation and use; plant and animal production, protection, and health; processing, distribution, safety, marketing, and utilization of food and agricultural products; forestry, including range management and range products; multiple use of forest rangelands, and urban forestry; aquaculture; home economics and family life; human nutrition; rural and community development; sustainable agriculture; molecular biology; and biotechnology. Its purpose is to promote efficient production, marketing, distribution and utilization of products of the farm as essential to the health and welfare of people and to promote a sound prosperous agriculture and rural life.

**Title: Hatch Act Regional Research
CFDA # 10.203**

Fiscal 2012 Revenues: \$473,309

Hatch Multi-State Funds are reserved Hatch funds allocated to provide for cooperative research employing multidisciplinary approaches for the uses applicable under the Regular Hatch Research Funds and conducted by the Experiment Station working with another State's Experiment Station, the Agricultural Research Service, or a college or university, to solve problems that concern more than one state.

**Title: McIntire-Stennis Competitive Forestry Research
CFDA # 10.202**

Fiscal 2012 Revenues: \$163,577

McIntire-Stennis Competitive Forestry Research funds are provided to State Agricultural Experiment Stations for forestry research and to train future forestry scientists. The research can cover areas such as reforestation, woodlands and related watershed management, outdoor recreation, wildlife habitats and wood utilization.

**Title: Smith-Lever 3 b&c
CFDA # 10.500**

Fiscal 2012 Revenues: \$1,112,171

Smith-Lever 3 b&c funds are received by each land grant university to be used for any Cooperative Extension activity. For the University of Nevada, Reno, these funds are used to provide community based (not for credit) instruction in Nevada communities throughout the entire state. This community based education is conducted in the topic areas of community development, agriculture, horticulture, health and nutrition, children youth and families, and natural resources.

These federal funds are included in the appropriations made by the state to the Nevada Agricultural Experiment Station and the Nevada Cooperative Extension Service.

**RESUBMISSION BY SRI INTERNATIONAL
OF FINAL, UPDATED VERSION OF
CONTRACT DELIVERABLE #4,
STATES' METHODS OF FUNDING HIGHER EDUCATION**

**STATE OF NEVADA
LEGISLATIVE COUNSEL BUREAU**

LEGISLATIVE COMMISSION (775) 684-6800

STEVEN A. HORSFORD, Senator, Chairman
Rick Combs, Director, Secretary

CARSON CITY OFFICE:

Legislative Building, 401 S. Carson Street
Carson City, Nevada 89701-4747
Fax No.: (775) 684-6600

RICK COMBS, Director (775) 684-6800

BRENDA J. ERDOES, Legislative Counsel (775) 684-6830

PAUL V. TOWNSEND, Legislative Auditor (775) 684-6815

DONALD O. WILLIAMS, Research Director (775) 684-6825



INTERIM FINANCE COMMITTEE (775) 684-6821

DEBBIE SMITH, Assemblywoman, Chair
Mike Chapman, Acting Fiscal Analyst
Mark Krmpotic, Fiscal Analyst

LAS VEGAS OFFICE:


555 E. Washington Avenue, Room 4400
Las Vegas, Nevada 89101-1049
Fax No.: (702) 486-2810

BRIAN L. DAVIE, Legislative Services Officer (702) 486-2800

MEMORANDUM

DATE: August 22, 2012

TO: Members of the Committee to Study the Funding of Higher Education
(Pursuant to Senate Bill 374 of the 2011 Legislature)

FROM: Alex Haartz, Program Analyst 
Fiscal Analysis Division

SUBJECT: **Agenda Item VI: Resubmission by SRI International of Final, Updated
Version of Contract Deliverable #4, States' Methods of Funding
Higher Education**

Dear Committee Members,

Included with the materials for the Committee's August 29, 2012, meeting is an updated, and resubmitted report (Contract Deliverable #4) from SRI International entitled States' Methods of Funding Higher Education, dated August 21, 2012. As the Committee will recall, SRI International previously indicated its intent to provide the Committee with an updated, final version by the Committee's last meeting.

At its June 27, 2012, meeting the Committee unanimously accepted the report submitted by SRI International pursuant to its contract. With the Committee's acceptance of the report, SRI International was not required to provide the Committee with this updated version. However, the Legislative Counsel Bureau's Legal Division recommends that the Committee formally accept the revised deliverable, which is the reason staff has placed Item VI on the agenda.

In its transmittal of the August 21, 2012, version of the report to the Fiscal Analysis Division, SRI International noted the following changes:

1. Updated information that was published about states' activities after the submission of the previous version is included. For example, on June 12, 2012, Arizona published a press release about their use of performance criteria.

August 22, 2012

Page 2

(Information on Arizona's use of performance funding begins on page 68 of the document.) In addition, several minor errors have been corrected that came to light during SRI's fact checking process.

2. This report includes one major addition. Due to the time constraints on the first deliverable, a 2010-2011 SHEEO (State Higher Education Executive Officers) survey served as the main data source. In that survey only three states indicated that they offset general revenue funds with student-derived revenues. In reviewing the state formulas themselves, SRI's research found ten states that actually account for the student-derived revenues in some fashion during the calculation of estimated need.
3. Some of the "Formula State" narratives (Appendix A, pages 65-95) have been expanded to include more detailed information about items that have been the topics of recent discussion, such as the inclusion of Texas' weighting of credit hours by discipline and academic level in Appendix D (pages 121-124).

In its transmittal, SRI International also noted that no significant changes were made to any recommendations in the report.

In the event that Committee members have questions regarding the updated report, the Fiscal Analysis Division notes that SRI International will be in attendance at the Committee's August 29, 2012, meeting. Please feel free to contact me directly at (775) 684-6862 or at ahaartz@lcb.state.nv.us.



States' Methods of Funding Higher Education

REVISED

August 21, 2012

**REPORT FOR THE NEVADA LEGISLATURE'S
COMMITTEE TO STUDY THE FUNDING OF HIGHER EDUCATION**



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Revised Report

This document is a revised version of a final report submitted to the Committee on June 8, 2012. The content supersedes all earlier versions of the material contained within.

Disclaimer

The findings and observations contained in this report are those of the authors and do not necessarily reflect the views of the Nevada State Legislature, its members or staff, or the Nevada System of Higher Education, its members or staff.

Introduction

About this study

During the 2011 session the Nevada Legislature enacted Senate Bill 374 (S.B. 374), which created an Interim Committee to Study the Funding of Higher Education. Acting on behalf of the Committee, the Legislative Counsel Bureau contracted with the Center for Science, Technology, and Economic Development, SRI International, to provide the Committee with reports on the following: a) States' budgeting practices pertaining to student derived revenues, b) States' use of student enrollments as a basis of higher education formula funding, c) States' inclusion of performance related components in higher education funding formula and, d) States' methods of funding higher education.

These reports compare practice in other states with the existing but suspended formula now in place in Nevada (referred to as the current formula through this report), and with an alternative formula proposed by the Nevada System of Higher Education. These reports also identify, where possible, standard practice and best practice among the states.

This document combines all four reports into a best and final version, for consideration by the Committee and for entry into the record of its proceedings at the committee meeting on August 29, 2012.

Background about higher education funding in Nevada

The Nevada System of Higher Education (NSHE) provides higher education to both Nevada residents and nonresidents through the following institutions:

- University of Nevada, Reno (UNR)
- University of Nevada, Las Vegas (UNLV)
- Nevada State College at Henderson (NSC)
- College of Southern Nevada (CSN)
- Western Nevada College (WNC)
- Great Basin College (GBC)
- Truckee Meadows Community College (TMCC)
- UNR School of Medicine
- UNLV Law School
- UNLV Dental School
- Desert Research Institute (DRI)

A 13-member Board of Regents governs the system, representing the 13 districts that comprise the state. The system is headed by the Chancellor's Office.

The bulk of state support for NSHE institutions is based on a set of formulas (which many, including this report, refer to as a single, higher education funding formula). The design of this formula is currently the subject of statewide debate and is a major focus of a new funding proposal by the Chancellor. Previous debate on the funding formula occurred in the late 1990s, when the legislature decided that the 1986 methodologies used to fund the University and Community College System of Nevada (UCCSN) "did not

adapt well to the explosive growth experienced on several of the UCCSN campuses.”¹ The 2001 Legislature revised the higher education funding formula as a result of a 1999 Committee to Study the Funding of Higher Education report. The resulting Committee recommendations kept the basic funding formula that had been in use since the 1960s, but revised it in an attempt to “focus on the equitable distribution of available funding.”²

The revised funding formula is comprised of formulas that independently calculate funding levels for Instruction, Academic Support, Institutional Support, Student Support, Library Acquisitions and Operation and Maintenance of Physical Plant. Each formula has many complex elements; however, each major formula is driven by a few main components:

- The formula for Instruction is driven by FTE student counts. This counts both in-state and out-of-state students. From 2001-2009 the FTE counts were based on a three-year rolling average; however, for the 2009-2011 biennium, the Legislature approved utilizing campuses' FY fall 2008 actual and spring 2009 preliminary enrollments for each year of the 2009-2011 biennium for purposes of allocating formula funding.³
- The formula for Academic Support is based partly on the number of FTE faculty members and staff members, number of library volumes, and the instruction budget.
- The formula for library acquisitions is based on FTE enrollment, faculty, and programs offered.
- The formula for Student Services is based on combined headcount and FTE enrollment.
- The formula for Institutional Support is based on total operating budgets.
- The formula for Operations and Maintenance of Physical Plant is based on maintained square feet calculation.

In addition to the revised formulas, the 1999 Committee recommended a performance pool to be distributed to institutions that achieved specific performance goals. In 2001, the Governor recommended an allocation of \$3 million for the FY 2002-03 performance pool; however, the 2001 Legislature denied the request because “a comprehensive plan was not provided that specified how the proposed funding would be allocated.”⁴ The pool has not been funded since then.

The Nevada 2011 Legislature created the Committee to Study the Funding of Higher Education in Nevada to examine certain funding issues related to the Nevada System of Higher Education. The members of the committees are required to:

1. Compare the existing method of funding higher education in Nevada with the methods used in other states;
2. Determine whether the other methods would be appropriate and useful in Nevada, whereby different missions of universities, state college, colleges and research institutes are appropriately considered in the funding of public higher education in Nevada;
3. Review the funding of remediation in the context of instructional delivery methods;
4. Consider the retention of resident registration fees and nonresident tuition outside of the state-supported operating budget;

¹ Nevada Committee to Study the Funding of Higher Education. *Legislative Counsel Bureau Bulletin No. 01-4*. January 2001.

² Ibid. p. 2

³ Fiscal Analysis Division, Nevada Legislative Counsel Bureau. Education. *2009 Appropriations Report*. P. 147-148.

⁴ Fiscal Analysis Division, Nevada Legislative Counsel Bureau. Education. *2001 Appropriations Report*. P. 20.

5. Consider funding in the context of completed courses in contrast to the current method of funding enrollments;
6. Consider rewarding institutions within higher education for achieving defined goals for graduating students; and,
7. Submit to the Legislative Commission a report of its findings and recommendations for legislation before the commencement of the 77th Session of the Nevada Legislature in February 2013.

To achieve these goals, the Legislative Committee has contracted with SRI International to assist them in their work. This report reviews other states' mechanisms of funding higher education systems and existing best practices.

Methodology and structure of this report

In many cases, higher education funding policies are a historic mash-up of different priorities and strategic decisions. Though SRI was initially under the impression that large inventories of state funding methods existed, upon review, we found such inventories were spotty and/or outdated. Therefore, SRI undertook a review of all states' funding methods. This report utilizes an extensive review of state legislation, publications, and reports as well as telephone and email interviews with state officials performed over a ten-week period by SRI from March-May 2012. Additional revisions were made over June-July 2012 in the course of the revision process for the committee.

This report is divided into two parts:

Part 1: Higher Education Funding Best Practices and Recommendations for Nevada. *Part 1* provides brief summary analysis of SRI's state-level research on key topics of interest in Nevada and distills best practices that can inform Nevada's review of its own method of funding higher education funding. This section then focuses on the context and drivers shaping higher education funding in Nevada and provides SRI's recommendations on key principles and approaches for reforming Nevada's funding method.

Part 2: States' Methods for Funding Higher Education. *Part 2* presents the detailed results and data from SRI's in-depth state-level research on higher education funding, focusing on several key topics: use of funding formulas, use of enrollment-driven funding, use of performance-based criteria, and treatment of student-derived revenues. For each key topic, current and proposed Nevada funding approaches are summarized and compared to other states' practices.

Appendices A, B, and C provide very detailed, state-level narratives and case studies for 48 states regarding their existing approaches for higher education funding (both formula- and non-formula-based). These detailed examples provide additional support and background for the state analysis and findings presented in *Part 1* and *Part 2* of the report.

PART 1:

Higher Education Funding Best Practices and Recommendations for Nevada

I. Diversification and Innovation: State Economic Context and Goals Shaping Higher Education Funding in Nevada

In the wake of the recent recession, Nevada's leaders have defined a new state economic development strategy with two goals: diversification and innovation.

It is impossible to design or evaluate a funding model for higher education in Nevada without first sifting and defining the announced policy goals of the state. Fortunately, Nevada's leaders and principal stakeholders have engaged in a series of important deliberations on the future direction of the state that have yielded a series of clear goals. These goals are stated in the following strategy documents:

Envisioning Nevada's Future: Goals and Strategies for Advancing our Quality of Life, The Nevada Vision Stakeholder Group (September, 2010).

Moving Nevada Forward: A Plan for Excellence in Economic Development, Nevada Board of Economic Development (February, 2012).

Unify/Regionalize/Diversify: An Economic Development Agenda for Nevada, The Brookings Institution and SRI International (October, 2011).

The motivation for the above studies needs little elaboration for anyone who has lived in Nevada over the last five years. After an exhilarating boom in the years immediately prior to the crash, Nevada was one of the states hardest hit by the subsequent recession. The state's economy grew 40% in seven years preceding the collapse, and shrank 10% in the following three years, with unemployment hitting a national low of 13% in the summer of 2011.

This crisis resulted in a determination by Nevada leaders and stakeholders to focus much more systematically on the state's economic development strategy. The goal of this renewed focus is the diversification of the state's economy. **Diversification** is to be achieved by a shift towards targeted economic sectors beyond the state's core activities of tourism, gaming, and retail, and by fostering a climate of **innovation** favorable to small- and medium-sized businesses and start-ups.

The Nevada System of Higher Education (NSHE) is a linchpin for achieving the state's goal of economic renewal through diversification and innovation.

The Nevada System of Higher Education (NSHE) is a principal player in achieving the state's shift toward diversification and innovation; its central role is called out in all three of the strategy documents identified above. Education was one of six critical areas identified in *Envisioning Nevada's Future*, which includes two specific objectives related to higher educational performance: increased graduation rates and increased levels of university research (p. 47). In *Moving Nevada Forward*, the educational system as a whole is identified as underperforming, and a key objective to address this challenge is an increase in students receiving certificates, associate degrees, and baccalaureate degrees (p. 58). In the area of innovation, a key objective is increased industry sponsored research, to be supported with matching funds from the state (p. 50). Finally, in *Unify/Regionalize/Diversify*, the critical role of higher education is discussed at length in Section VII (pp. 128-139), including a repeated emphasis on progress metrics.

The people of Nevada and their leaders take a highly utilitarian view of their institutions of higher education. While it remains true that higher education prepares students broadly, to be good citizens and to lead lives of personal fulfillment, the most important priority at present is the contribution of NSHE to the renewal of the state's economy.

Declining funding levels and challenging student demographics are critical constraints on NSHE's contribution to the state's economic goals.

The recession had a powerful impact on state revenues in Nevada, resulting in a 20% decline in state funding for NSHE over the last two biennial budget cycles. It is hoped that this decline is at an end, with the possibility that some salary and benefits cuts will be restored. But it is very likely that state funding levels will continue to be a constraint into the future. This means that state leaders and NSHE must be willing to make hard choices. Differentiation and division of labor among institutions should be embedded in the funding model. Furthermore, this funding constraint means that funding a performance pool as an element of the funding formula will most likely be achieved by carving it out of the existing state appropriation.

A more intractable constraint is the quality of students entering NSHE. Nevada has one of the lowest high school graduation rates in the country. Over 40% of students entering two-year colleges require remediation, and almost 30% of students entering four-year institutions require it. These numbers reflect, in part, underlying characteristics of the population. Many students are the first in their family to go to college; many are "at-risk" due to their socio-economic backgrounds. There also exists in Nevada a significant pool of adult learners who have some college credits, but who need remedial and other services if they are to successfully return to the classroom.

In many ways the demographics of Nevada's incoming higher education students are representative of the future for the whole of the United States. For that reason, Nevada's situation also represents an opportunity – success in this area will place Nevada ahead of those other states that have not yet come to terms with the country's changing demographics. It must be a central priority of the higher education system to meet the needs of these "non-traditional" students. Unless NSHE succeeds in this area, it cannot meet the attainment goals the state has set for itself – that is, an increase in the percentage of adults with a higher education certificate or a two- or four-year degree – and it cannot contribute successfully to the state's goals of economic renewal, diversification, and innovation.

Two significant challenges must be addressed if NSHE is to contribute effectively. It must closely align its programs and research around the economic development goals of the state, and it must dramatically improve its performance.

NSHE has been funded over the years through an existing mechanism that rewards enrollment. There has been too little consideration of the alignment of degrees and other programs around the economic needs of the state. This is already changing; many NSHE institutions have developed new initiatives in support of economic development goals. But alignment needs to be thoroughly embedded in a new funding model.

In addition, NSHE's current funding mechanism hasn't rewarded performance at all. NSHE's proposed alternative funding mechanism does include a performance pool, which is badly needed to incentive outputs because output performance in NSHE institutions has been weak. Compared to the 22 research-intensive institutions selected by NSHE as peers, UNR and UNLV had graduation rates in 2010 that place

them close to the bottom of the group. Based on 6-year graduation rates, the two institutions are, respectively, 7 and 15 percentage points below the group average of 56%. Both institutions share a 4-year graduation rate of only 14%.⁵ These numbers have remained largely unchanged for a decade. Of those students who enroll full-time in 2-year colleges in Nevada, only 25% graduate at all. This low level of performance is costly to the state and to students and their families. Nevada needs to produce more graduates in less time.

⁵ Integrated Postsecondary Education Data System (IPEDS). 2010 data. Data elements: [drvgr2010.gba4rtt:VL-Graduation rate - Bachelor degree within 4 years- total] and [drvgr2010.gba6rtt:VL-Graduation rate - Bachelor degree within 6 years- total].

II. Guidance and Best Practices: Summary of States' Higher Education Funding Methods

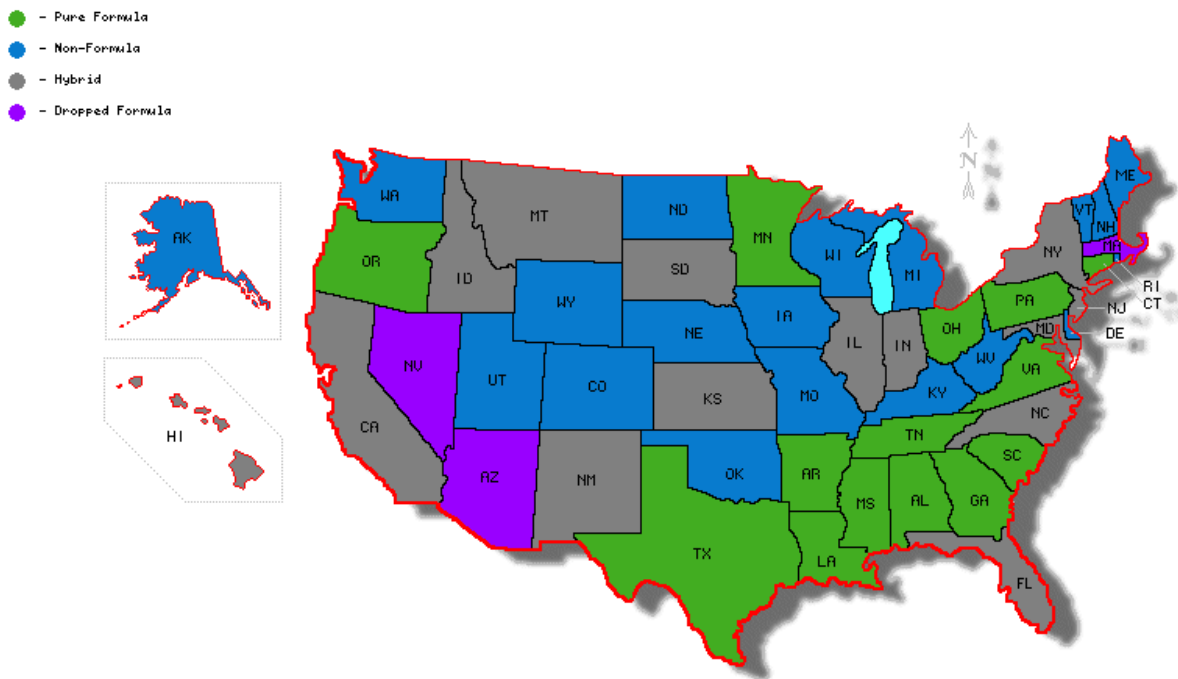
State approaches for funding higher education vary considerably from state to state in several major ways: whether formulas or non-formula approaches are used for determining funding levels; whether funding is tied to enrollment levels; whether performance-based criteria are applied; and how student-derived revenues are treated. The following section summarizes state approaches across these areas and distills best practices, which are then used by SRI to evaluate Nevada's current and proposed higher education funding models.

A. Use of funding formulas and enrollment-driven funding

1. Summary of formula and non-formula states

According to SRI's research, seventeen states currently use a formula to calculate funding levels for higher education institutions in some fashion. Nineteen states use non-formula-based funding methods, while an additional fourteen states have hybrid models (typically using formulas to fund two-year institutions and non-formula methods for four-year institutions or using a base plus approach where the plus is calculated by a formula). Generally, as we review below, both formula- and non-formula funding tends to be driven by student enrollment – formally in the case of formulas and informally in non-formula funding. Recently, higher education funding formulas have not been fully funded in many states, and so state appropriations are only a fraction of what the funding formula recommends. States that do not use formula-based methods tend to fund based on legislative priorities/policies or based on a "base plus/minus" method. Five states have dropped formulas in the very recent past (indicated in purple in Figure 1.1).

Figure 1.1. State methods for higher education funding: formula and non-formula.



Formula-based funding methods

As indicated above, seventeen states determine or recently determined funding through a formula, and fourteen states apply a formula for some (but not all) types of institutions/funding. Additionally, five states (Arizona, Nevada, Florida for 4-years institutions, Massachusetts, and New York for 4-years institutions) have used funding formulas in the past, but have abandoned the formulas for some or all institutions during fiscal downturns. The complexity of funding formulas varies widely from state to state. Recently, higher education funding formulas have not been fully funded in many states, and so state appropriations are often only a fraction of what the funding formula recommends. Every state that uses a formula also utilizes non-formula appropriations to fund everything from operations and maintenance to special programs to entire schools. These off formula appropriations can be significant.

State funding formulas typically consist of a subset of ten budgetary functional areas, as described in *Table 1.1*. While there are variations in how each state specifically defines each funding component, this list reflects the most commonly used general definitions. Most state formulas only contain a fraction of the items listed below. A few common elements are prevalent across all states that use formulas:

- Every state with a formula funds **instructional activities** through the formula, and almost every state has a specific instructional support formula that accounts for the vast majority of the calculated funding levels. There are many methodologies used by states for calculating instructional support funding levels, but all methods are typically tied to *enrolled* or *completed* student credit hours.
- Most of the states using a formula include a component for **operations and maintenance of physical plant** in the funding formula.
- Most of the other funding components included in state formulas are typically calculated based on a percentage of the instructional support funding level, and are therefore indirectly tied to enrollment levels.

Table 1.1. Typical components of state higher education funding formulas.

Components of State Funding Formulas	Includes	Typical Models for Calculating Funding Levels
Instruction	<ul style="list-style-type: none"> • Activities associated with an institution's instructional program 	<ul style="list-style-type: none"> • Convert student enrollment credit hours into FTE faculty positions using a ratio, then establish a set amount of funding per faculty position (using various methods) • Calculate <i>enrolled</i> or <i>completed</i> student credit hours, then use a per credit hour cost matrix to establish funding level
Remedial Instruction	<ul style="list-style-type: none"> • Funding specifically as a function of remedial instruction 	<ul style="list-style-type: none"> • Calculate funding levels based on student enrollment, enrolled credit hours, or completed credit hours in remedial instruction
Operation & Maintenance of Physical Plant	<ul style="list-style-type: none"> • Physical plant administration, utilities, building maintenance, custodial services, landscape & grounds maintenance, and repairs and renovations 	<ul style="list-style-type: none"> • Calculate funding based on actual building square footage • Calculate funding based on an estimate of square feet needed based on enrollment levels

Components of State Funding Formulas	Includes	Typical Models for Calculating Funding Levels
Academic Support	<ul style="list-style-type: none"> Support of the institution's primary academic mission such as computer labs, academic administration, and curriculum development and support 	<ul style="list-style-type: none"> Usually calculated as a specific percentage of the instructional support funding level (and therefore tied to enrollment levels)
Library Support	<ul style="list-style-type: none"> Library services 	<ul style="list-style-type: none"> Calculate funding based on student headcount Calculate funding based on a percentage of the instructional support funding level (and therefore tied to enrollment levels) Many states provide library support through the academic support funding category, rather than as a separate component
Student Services	<ul style="list-style-type: none"> Offices of admissions and registrars Student services & activities outside the formal instruction program (e.g., student activities, cultural events, student newspaper, intramural athletics, etc.) 	<ul style="list-style-type: none"> Calculate funding based on a percentage of the instructional support funding level (and therefore tied to enrollment levels) Calculate funding based on student headcount or enrollment
Institutional Support	<ul style="list-style-type: none"> Central, executive-level activities related to management and long-range planning for the entire institution (e.g., president's office, fiscal operations, community and alumni relations, etc.) 	<ul style="list-style-type: none"> Calculate funding based on a percentage of the instructional support funding level (and therefore tied to enrollment levels)
Public Service	<ul style="list-style-type: none"> Foster the continuation and expansion of public service activities 	<ul style="list-style-type: none"> Calculate funding based on a percentage of the instructional support funding level (and therefore tied to enrollment levels)
Research	<ul style="list-style-type: none"> Support for institutional research activities 	<ul style="list-style-type: none"> Calculate funding based on a percentage of the instructional support funding level (and therefore tied to enrollment levels)
Scholarships	<ul style="list-style-type: none"> A formula component that fund scholarships. 	<i>No states include a component in their funding formula for determining funding levels for scholarships</i>

Non-formula-based funding methods

As indicated above, nineteen states determine funding through a formula, and ten states apply a formula for some (but not all) types of institutions/funding (typically, formulas are applied for two-year institutions but not for four-year institutions). Non-formula funding determination methods vary widely from state to state, but the two most common methodologies are the following:

- **“Base Plus” Method:** This is the most popular non-formula funding method. The higher education appropriation or funding request is based on the previous year's appropriation (the

base), plus some enhancement or cut – which may be formally or informally based on enrollment (or other performance factors). In New Mexico, for example, any new money under the “base plus” calculation (the “enhancement”) is allocated via a performance-based formula (along with 5% of the base).

- **Funding Based on Legislative Priorities:** Some states based simply on legislative priorities or policies, which could be on the amount of funding available or on peer equity with other states for higher education funding.

State systems of higher education were appropriated more money to pay for the ever increasing student enrollment when higher education budgets were increasing. Sometimes that increase was informally tied to enrollment – i.e., “we have more students, we need more money”. Other times the increase was based on a general increase in the state budget or legislative priorities. However, in recent times, higher education appropriations have declined despite enrollment increasing.

2. Best practices in states’ use of funding formulas

Best practice in funding higher education depends on policy goals; in this sense “best practice” means simply the right incentive given some specific policy objective. If access to higher education is the goal, then a funding formula based on *enrolled* student credit hours is a best practice. Access has dominated all other policy goals in higher education for many decades, and any policy that encouraged institutions to enroll more students was good policy seen from that point of view. Indeed, even non-formula states implicitly reward higher education institutions with new money based on the need to fund enrollment growth through a cost-plus approach.

But is perfectly possible to create incentives for other goals. If a higher graduation rate is the goal, then a funding formula based on *completed* student credit hours is a best practice. Having other performance metrics folded into the formula, for example graduation rates, is also a good practice for encouraging shorter time to degrees (see below for a substantial discussion of performance funding). If the goal is to maintain state-to-state peer equity in higher education funding, then a formula based on the cost of full-time faculty positions using peer average salaries is a best practice. If the goal is to incentivize the growth of specific disciplines or programs, then a formula weighted according to policy goals is a best practice. *In short, the design of any formula requires explicit acknowledgement of the policy goals the formula is intended to further.*

Because of the commitment to access noted above, in most formula funding states and most non-formula states the calculation of funding levels is more or less directly tied to student enrollment or credit hours. In many states, like Nevada, the funding calculation is based upon *enrolled* student credit hours rather than *completed* student credit hours, under the theory that the cost of providing services in any given term does not change when students withdraw. However, if funding is based on enrollment, institutions may be incentivized to enroll students regardless of their ability to succeed. The opportunity cost to an individual student is large, in terms of both time and money, if the student does not complete a course. In addition, higher education institutions and states waste money paying for a student who will not complete the course and/or the degree.

One way to mitigate low completion rates is to incentivize higher education institutions to support students in completing courses/degrees by allocating funding based on successful course completion

(rather than course enrollment). This policy may encourage institutions to provide more academic support, such as tutoring and teaching assistants. On the other hand, if course completion is the driving factor behind state general fund appropriations, institutions may then be incentivized to lower the standards required for course completion. Faculty members may feel pressure to give higher grades so students do not get discouraged and quit.⁶ Alternatively or concurrently, institutions may become overly stringent in admission standards, which could reduce access for students.

An alternative funding approach uses enrollment numbers taken at the end of the term or course completion *including failing grades*, which may incentivize institutions to provide academic support for students to help them stay in the class, while tempering the pressure to pass students so that the institution gets paid for the time invested in the student. The NSHE alternative funding proposal for Nevada falls into this category, since the proposal allocates money to credit hours completed with any grade (except a withdrawal).

Before deciding if course enrollment (or completion) should drive funding, the Committee should consider what they want to incentivize. Historically, funding based on enrollment has incentivized getting students into class, sometimes to the detriment of both the school and the student. In the past, Nevada's current but suspended funding method appears to have resulted in all institutions embracing an access mission because it was financially advantageous, rather than each institution embracing a differentiated mission. The Committee should take care to consider the incentives created by different kinds of enrollment-based funding formulas and by performance criteria such as successful course completion.

3. Use of the funding formula and enrollment-based funding in Nevada: current and proposed practices

The current Nevada funding formula is comprised of formulas that independently calculate funding levels mainly for Instruction, Academic Support, Library Acquisitions, Institutional Support, Student Services and Operation and Maintenance of Physical Plant. Each formula has many complex elements; however, each major formula is driven by a few main components:

- The formula for instruction is mainly based on student-to-faculty ratios using full-time equivalent (FTE) student counts based on enrolled student credit hours. Notably, this counts both in-state and out-of-state students. From 2001-2009 the FTE counts were based on a three-year rolling average; however, for the 2009-2011 biennium, the Legislature approved utilizing campuses' FY fall 2008 actual and spring 2009 preliminary enrollments for each year of the 2009-2011 biennium for purposes of allocating formula funding.⁷
- The formula for academic support is based partly on the number of full-time equivalent faculty members and staff members, number of library volumes, and the instruction budget.
- The formula for library acquisitions is based on FTE enrollment, faculty, and programs offered.
- The formula for student services is based on combined headcount and FTE enrollment.
- The formula for institutional support is based on total operating budgets.
- The formula for operations and maintenance of physical plant is based on maintained square feet calculation.

⁶ Jacobs, Joanne. "More States Utilize Performance Funding for Higher Education." *US News and World Report*. February 24, 2012.

⁷ Fiscal Analysis Division, Nevada Legislative Counsel Bureau. Education. *2009 Appropriations Report*. p. 147-148.

The Nevada System of Higher Education Office of the Chancellor proposed a new funding formula in 2012. This funding formula uses only credit hours for resident students who complete courses where a grade had been posted, including a failing grade. These credit hours are multiplied by a program and level-based weighting matrix, and multiplied by a state appropriations-based price, to calculate instructional support and operation and maintenance support, as well as determining the application of a small institution factor. In addition, the proposed formula provides additional weighting of the student credit hours for research support and a separate O&M formula for university research facilities. The proposed formula also includes a performance pool that will fund institutions on output measures such as degrees and credit completed.

The major shift from the present formula to the proposed alternative is the inclusion of O & M in the instructional formula, which is consistent with practice in most other formula states. The additional research weighting and the research O & M “carve out”, included in the proposed formula appears to be unique when compared to other states, and careful consideration is recommended of the policy goals behind this proposed practice.

In summary, the NSHE proposed alternative formula is effectively based on enrollments, except to the degree that successful completion is established as criteria for completed credit hours. This dependence on enrollments remains overwhelmingly the established practice among formula states, with just two exceptions, although a wider shift towards performance as part of a formula is likely in the years ahead (see discussion below).

Table 1.2. Types of performance metrics used in higher education funding.

Category	Types of Metrics Used
Output Metrics	Degrees awarded; Graduation rates (or “time to degree”); Research incentives (e.g., amount of federal R&D monies)
Progress Metrics	Transfer rates from 2-year to 4-year institutions; Successful course completion; Length of time to earn degree; Student progression (or “credit accumulation”); Advancement through remedial and adult education; Job placements
Economic Development Metrics	Earned research dollars; Degrees linked to workforce development goals (e.g., high demand areas such as STEM or health)

Performance-based funding mechanisms have been used by states for at least three decades, with mixed results, and a number of states have cut their programs due to lack of alignment with state politics, complexity, lack of available data, or lack of funding. Key determinants of success for performance-based funding are the size of the performance pool (i.e., are performance-based funds a large enough share of institutional funding to incentivize behavior?) and also whether performance funding is allocated as a “bonus” or whether it is tied to baseline institutional support.

2. Best practices in states’ use of performance-based funding

Since the Second World War, higher education in the United States has been the engine of economic growth and social mobility. The U.S. higher education system is accustomed to worldwide recognition and emulation, and this success was built on an ethic of access, first embodied in the G.I. Bill and then sustained by the expansion of low-cost state institutions, federal financial aid, and other student loan programs. This ethic was also furthered by a conviction among middle class families that college was the best path to economic security.

Although getting students into college (increasing the participation rate) is still a crucial issue, especially among low-income and underserved population groups, it is fair to say that an inflection point has been reached. Access is no longer the only, or even the primary challenge facing states and institutions of higher education. In Nevada, roughly 40% of students who enroll full-time in a four-year college fail to graduate – the numbers are worse for part-time and two-year programs. It is a serious waste of public resources to admit students to college who then drop out without a qualification, and grossly unfair to the students themselves who are left with dashed hopes and (often) painful burdens of debt. Nevada, along with all other states, needs performance criteria that will change this dynamic.

As noted above, most states to some degree have tied their support for higher education with the number of students enrolled and taking classes. This practice has the effect of biasing decisions by campus leaders towards greater access (i.e., higher enrollments). More students in seats mean more money. If *access* is the goal, then enrollment is an appropriate performance criterion. But once the focus shifts toward other goals, as it has in many states, then paying for enrollment is a deficient practice in a variety of ways. It encourages the admission of students unprepared to succeed, it provides no incentive to help those students or to ensure quality, and it generally fails to align programs and curricula with workforce and other economic development goals. (While many states’ funding formulae recognize differences in costs associated with different programs, these costs are paid without evaluating the purpose or success of a program.)

Performance criteria that go beyond access, and that address the deficiencies noted above, typically fall into three broad categories:

- **Alignment:** It is striking how often funding models for higher education are not clearly aligned with state policy goals. Yet, how money is spent is policy (whether acknowledged or not). Any higher education funding model should reflect the expressed policy goals and foundational values of the state and its institutions. For example, land-grant universities – a distinctively American institution – were established with the explicit purpose of promoting “useful learning.” The alignment of higher education’s teaching, research, and engagement with the needs of society, including a state’s social and economic goals, is a basic performance test for all policymakers.
- **Attainment:** Educational attainment – the percentage of the adult population with a college degree – is such a strong predictor of a region’s economic success that it represents a goal in its own right, apart from broader questions of alignment. In Nevada only 22% of the adult population has a bachelor’s degree, which ranks the state 46th among all states and the District of Columbia (although Nevada’s 7.5% attainment rate for associate’s degrees is close to the national average). Raising the number of graduates produced is a straightforward way to raise attainment and so constitutes a key metric, in one form or another, for many performance criteria.
- **Quality:** This issue is not often addressed by the performance criteria actually in use in various states, but it has been the subject of a great deal of discussion, for example, in the *Spellings Commission Report of 2006*.⁸ As the focus on attainment and on graduates grows, there will inevitably be a concern with quality control. In the long run it is unwise to provide significant incentives for the production of degrees without, at the same time, providing incentives for maintaining quality.

Degrees and GPAs are proxy measures of the skills and competencies students acquire through their education. As students and their families pay more, and as employers become more demanding of new entrants to the workforce, they will all want to know if the degree means what it says. Various independent measures of learning have already been developed and tested, for example, the Collegiate Learning Assessment⁹, and their use as performance criteria in one form or another is inevitable.

Many specific metrics are subsumed into these three broad categories, and some may be especially important in Nevada’s case. For example, criteria that reward institutions for remediation – i.e., efforts to accelerate and ensure the graduation of students who are under-prepared – contribute to the overall goals of graduation and attainment. In Nevada’s case, remediation is especially important, with almost 30% of freshman at 4-year institutions and over 41% of freshman at two-year institutions requiring it. Another example is using time to degree, or some other measure of academic progress, as a criterion. Progress is a strong predictor of eventual success (although what is an appropriate measure will vary by program and institution and must be chosen with care). As noted above, at present it takes too long to get a degree in Nevada.

⁸ <http://www2.ed.gov/about/bdscomm/list/hiedfuture/index.html>

⁹ <http://www.collegiatelearningassessment.org/>

Three other issues matter in the design and adoption of performance criteria. They are operational rather than substantive.

- **Clarity:** It is very easy to design a complicated set of performance criteria that answer to every felt need. However, a complicated formula is hard to implement; more likely to yield unintended consequences; and, most important perhaps, difficult to explain to policymakers, stakeholders, and citizens. Complex formulas have doomed past performance-based initiatives in a number of states.
- **Differentiation:** Any set of performance criteria will be applied to a highly differentiated set of higher education institutions. The way the criteria operate, along with the incentives created, should have the effect of maintaining and even enhancing differentiation and the division of labor. This will encourage efficiencies in the use of resources. Performance funding that does not account for the different missions of institutions has also been attributed to performance funding failures.
- **Scale:** The resources subject to performance criteria should be significant enough in scale to shape institutional behavior. This means that even if tuition and fee revenues are properly separated from public monies, the overall income of an institution or system should be considered in determining what percentage of public funding is tied to performance. Furthermore, these funds should be drawn from the overall budget for higher education (part of the “base” funding) and not budgeted separately (as “bonus” funding). Otherwise, as seen in the past, the monies set aside will disappear whenever the state budget is under stress.

The three substantive categories discussed above, along with the three operational considerations also identified, provide a simple framework for evaluating any existing or proposed system of performance criteria – and in particular provide a framework designed to go beyond access and enrollment as a primary driver. Indeed, the three substantive categories of performance criteria can be ranked in the order presented. *Alignment* should be the starting point for any understanding or evaluation of a higher education funding model. Failure to design a system of funding without careful reference to policy goals and foundational principles may yield unexpected and undesirable practices and outcomes. Second, no other purpose is more important than a laser-like focus on the production of graduates (*Attainment*). Various metrics may capture different aspects of success in this area, but such success is, and should be, at the heart of any set of performance criteria. Finally, *Quality* control is also important, but may require more deliberate adoption given the need to collect new kinds of data. If these categories are systematically addressed, then operational questions—especially timing—become important.

3. Use of performance criteria in Nevada: current and proposed practices

Evaluating the existing NSHE funding formula with regards to performance criteria

The “current” Nevada higher education funding formula has not been directly employed to calculate state funding levels for the last two biennia. It is very complicated (one of the most complicated among all states), but its several elements are driven directly or indirectly by student enrollment. In short, it reflects the principle of *access*, in which institutions are rewarded for enrolling students in classes. It is sensitive to the mission and size of institutions, but otherwise it is not “outcome-based.” As a recent report notes:

*The current funding model does not have a performance component, or an incentive funding component, and could be improved by additions and changes to incorporate performance. There is no linkage to the goals for the colleges and universities, nor any measure of accomplishment, and no link to performance standards.*¹⁰

The current formula raises serious concerns from the point of view of the first and second criteria discussed above (*Alignment* and *Attainment*). The formula was never tightly linked to larger policy goals or explicit principles. This deficiency is revealed in several areas of the formula unrelated to students. For example, Research is not funded based on a formula or any guiding set of principles, but based on incremental payments. No economic development goal is attached to it. Operations and Maintenance is based on the size of existing buildings, as if heating and cooling buildings is an important policy goal of the state. As noted elsewhere, the performance criteria originally included in the formula were never adopted, and the formula gives no consideration at all to *Quality*, in the form of skills, competencies, or anything else.

Serious claims exist concerning the lack of equity in the way Nevada's formula has worked. In SRI's view the objections to this formula are more fundamental. It is a model without a guiding rationale or policy objective. It operates chiefly as an incentive for more access, and is deficient in its support for remediation and student success. It is also combined with a large number of out-of-formula payments that lack any clear rationale.

Evaluating the NSHE-proposed alternative model with regards to performance criteria

In January 2012, the Nevada Board of Regents adopted *Strategic Directions for the Nevada System of Higher Education*, in response to the NGA's *Complete to Compete* Initiative. The Board of Regents stated as its primary goal to "graduate more students with meaningful degrees and certificates, thus positioning the graduates for fulfilling and productive careers and positioning the State with an educated citizenry required for supporting and maintaining economic development and diversification." The Board of Regents spells out four initiatives under this program, and the second initiative speaks to performance-related funding criteria, stating the goals of "reward[ing] institutions for progress in achieving performance standards, including goals agreed upon through the National Governors Association Policy Academy and the CCA completion metrics"¹¹ and "establish[ing] performance metrics to set budget parameters, determine system priorities, and allocate performance funding dollars."

Nevada's *Strategic Directions* initiative aligns with many of the performance criteria used by other states. Course and degree completion by low-income and under-represented students are performance criteria that align with *Strategic Directions* Initiative #2.1: "Adopt...goals for enrolling and graduating students from diverse backgrounds." Performance criteria based on workforce needs align with *Strategic Directions* Initiative #2.3: "Establish institutional protocols for reviewing student performance and determining the extent to which they are pursuing and completing educational programs and acquiring the skills demanded of Nevada employers."

The NSHE work on an alternative higher education funding formula is grounded in the strategic planning process that yielded the *Strategic Directions* strategy document. Having clearly articulated goals as a

¹⁰ MGT of America. *Evaluation of the NSHE Funding Formula*. May 2011. P. ES-2.

¹¹ http://www.completecollege.org/path_forward/commonmetrics/

point of departure helps meet the test of *Alignment* described above, although the incentives created by the formula should, of course, align with these goals.

In addition to emphasizing the increased production of meaningful degrees and certificates as a critical metric of success, *Strategic Directions* is distinguished by the fact that it also identifies numerous initiatives and practices that will contribute to success, but are not directly related to state funding. This underscores an important point: while the higher education funding formula is very important, it is far from the only element required to produce more degrees in less time (and with fewer resources). We note, for example, the focus on new and improved data systems as one area that will make an indispensable contribution to measuring success or designing interventions to avert failure. (While Nevada has made progress in data collection centered on student unit records, a P-20 State Longitudinal Data System is not yet mandated or funded.¹²)

The NSHE leadership has worked closely with the National Governor's Association (NGA) in devising the performance criteria or pool for its new proposed alternative formula. A particular virtue of the way NGA approaches metrics, which is especially important in the case of Nevada, is that it has focused on metrics that apply to all kinds of students – traditional students in a residential, four-year college; transfer students; part-time students; and students requiring remediation. This last kind of student presents a tremendous challenge for the NSHE, where over 40% of two-year college freshmen and almost 30% of four-year college freshman require remediation. But current remediation efforts in Nevada are not working, with less than 10% who get help in two-year colleges, and less than 40% who get help in four-year colleges, completing their degrees in a timely manner. Nevada cannot achieve its goal of increased graduates unless it is successful in remediation.

While everyone recognizes that the proposed NSHE performance pool is a work in process, the commitment to a performance pool as part of a new funding formula is an important and valuable improvement over the present formula, and is a change consistent with developments in many other states.

As noted elsewhere, the *outcome* metrics identified by NGA provide information about current performance, while the *progress* metrics help flag the direction of future performance, and also (when based on individual student records) can provide administrators with the tools for targeting where exactly individuals go off track.¹³ When used in combination these metrics allow for measurement of progress and for understanding of how that progress was achieved.

The metrics proposed by NSHE focus largely on one *outcome*: degrees awarded. This particular outcome metric has the virtue of being a simple number, directly related to the goal being pursued, easy to collect, difficult to manipulate, and intuitive – therefore easy to explain to citizens, students, stakeholders, and policymakers. It meets the operational test of *clarity* described above. However, this approach is subject to some shortcomings. Nevada needs more graduates, but it also needs to produce them more efficiently – in other words by patching leaks in the pipeline – and with no loss in quality.

¹² <http://www.DataQualityCampaign.org/DFA2011>.

¹³ A more conventional way to describe the *outcome* metrics chosen by the NGA could be as *output* metrics. An *outcome* might be thought of as a graduate having the skills and competencies for which the possession of a degree is a proxy measure.

Rewarding raw numbers of degrees produced may create incentives to admit even more unqualified students, hoping some stick, or to lower standards to get students out the door.

Progress metrics (and what NGA refers to as “context” metrics) can serve as a check on this potential problem. For example, retention rates (the number of students who enroll consecutively from fall-to-spring and fall-to-fall) will indicate pipeline problems, as will the completion ratio (the ratio of degrees granted to full-time enrolled undergraduates). However, NSHE’s proposed performance criteria include *progress* metrics for the community colleges only. Without *progress* metrics, the sole emphasis on degrees awarded is at odds with the requirement for *quality* identified above.

In that spirit, another metric that we believe should now be seriously considered by Nevada (as well as by other systems of higher education) – as identified in the discussion above on *quality* – is the independent assessment of learning outcomes. This is the best kind of quality control. We do not specifically recommend the Collegiate Learning Assessment, but it has been shown to be an independent, valid measure for student skills across time and across groups of students. Any metric chosen should be equally valid and should allow Nevada to compare its students’ skills against national scores. No such measure is in the NSHE-proposed performance pool. It will require some years to accumulate the necessary data for implementation, but the future adoption of such a metric should be allowed for in the design of the pool.

Rewards for achievement in research are also included in the NSHE-proposed performance pool. The way in which research funding is incentivized in the proposed alternate funding formula seems to lack simplicity, in part because three different paths are identified: 1) In the “base” formula, higher costs are assigned to the two research universities for upper division and graduate level classes by applying a 10% increase in the weight of these classes; 2) In addition, the two research institutions are granted a “carve out” from the state appropriation before the formula is applied, calculated based on non-instructional research space, 3) Finally, in the performance pool, research is rewarded based on a very broad definition of dollars received for sponsored and external research expenditures (for example, it includes dollars received for student services). None of these approaches addresses directly the economic development goals of the state. “Dollars earned through sponsored research” (which is appropriately defined) should be rewarded (and are rewarded in other state formulas), but perhaps not almost any kind of external grant, at least not under the rubric of “research.” In the NSHE-proposed performance pool, this important area is not clearly aligned in ways consistent with stated goals.

Remediation is another important issue. In the NSHE-proposed formula, the “base” formula provides no extra support for remedial courses at the colleges, even though successful remediation is a relatively costly activity, and it does not support remedial courses at the universities at all (at present the universities provide remedial courses without using state support, a situation that would remain unchanged under the new system). There is a premium weight applied to “basic skills” classes, and there is a progress metric with a modest weight included in the performance pool that rewards successful remediation at the college level. Remediation is an area in which a new formula should accentuate differentiation. It is not clear that the NSHE-proposed formula achieves this.

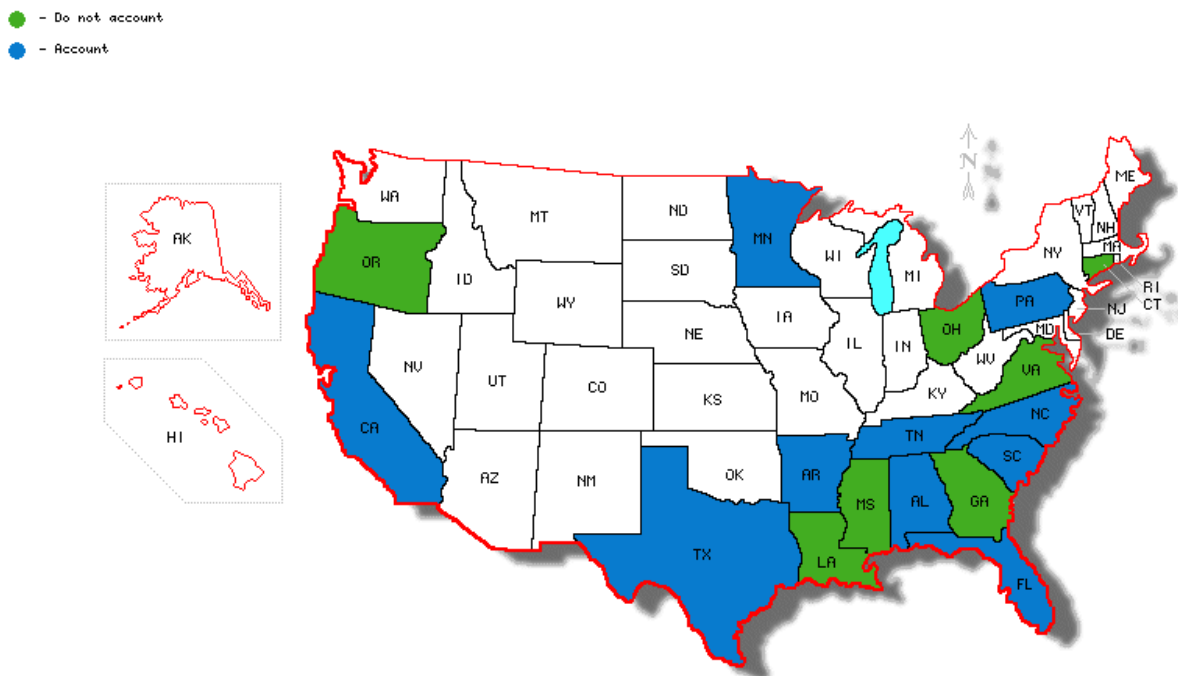
C. Treatment of student-derived revenues

1. Summary of states' treatment of student-derived revenues

The most common model nationwide is for student-derived revenues (i.e., tuition and fees) to be controlled and retained by individual higher education institutions, and approximately 42 states follow this model. In these states, the legislature generally does not formally budget or appropriate student-derived revenues in the budget setting process. In twelve states, however, student-derived revenues must be appropriated by the state legislature (and in three of these states, student-derived revenues are used to offset general fund appropriations). Most of the twelve states that appropriate student-derived revenues through the legislature require the revenues to be deposited into separate state tuition accounts. A number of states (including Nevada) actually use hybrid models, in which some student-derived revenues are retained and another portion is appropriated through the state legislature, or in which some types of institutions retain/control their own revenues and other types of institutions do not.

Further research beyond the State Higher Education Executive Officers survey that informed the previous paragraph found that Alabama, Arkansas, Minnesota, Pennsylvania, Tennessee, Florida, California, Texas, South Carolina, and North Carolina subtract student-derived revenues from their formula's calculated need was also the practice in Nevada, as shown in Figure 1.3, which show of the 15 states that current use a funding formula, ten states subtracted at least a portion of student-derived revenues from the formula's calculated need.

Figure 1.3. State treatment of student-derived revenues.



The dominant model of institutions retaining and controlling their student-derived revenues may be attributed to the fact that tuition and fees have historically represented a very small percentage of higher education budgets; however, this trend is changing (tuition revenues are going up, while state

appropriations are going down). Many states are reviewing their policies as student-derived revenues move toward becoming the majority of public institutions' revenue streams. Additionally, some states are now requiring performance-based measures to be met for schools to gain increased autonomy over student-derived revenues.

2. Best practices in states' treatment of student-derived revenues

The discussion that follows will evaluate practices in this area by judging their impact on six policy areas that have important consequences for any system of higher education: efficiency, access, sufficiency, quality, accountability, equity and alignment.

As mentioned above, the vast majority of states allow their institutions and campuses to keep and control any student-derived revenues. This kind of arrangement could be described as "distributed," in which fees are managed where they are collected. By contrast, Nevada's current budget policy (together with that of a few other states) counts nonresident tuition and student fees "first" in the budgeting process. An institution's tuition and fees stay on campus, but – it is argued – have an impact on monies available from the general fund because they are counted as part of the overall level of state support. This kind of system can be described as "integrated," in which fees at each campus are managed as part of a single, state-supported budget.

These are not two clearly distinct systems, as we note in the discussion above there are mixed cases. Furthermore, in many cases state boards or state legislatures set tuition and fee rates. As the discussion below will suggest, the incentive structure associated with either a distributed or integrated system is shaped in important ways by the level of tuition and fees, and also the degree to which institutions can influence the process by which they are set. For example, rates may be set at such a low level that they limit the incentive to increase enrollment in particular programs, or to compete for out-of-state students.

While at first glance it may seem that a distributed system has many obvious benefits, and an integrated system several drawbacks, evaluating the impact of each kind of arrangement is complicated, and the balance of benefits will depend upon the broader set of policies and goals embodied in any particular system of public support for higher education.

- **Efficiency:** The impact on efficiency of either approach is unclear. On the one hand, it may be argued that under a distributed system an institution is meeting an important market test – the institution has an incentive to grow its own source of revenues by graduating satisfied customers at a competitive price. On the other hand, if an institution is, in its region of the state, an effective monopolist, the only provider of a certain kind of education, it may grow revenues without much improvement in quality or efficiency.
- **Access:** Under a distributed system, an institution has an incentive to lobby the relevant authority for higher tuition and fee rates, which could have an impact on access. Furthermore, if out-of-state tuition rates are high, and if there are out-of-state students available to pay them, then there may be a crowding out effect felt by in-state students. In some cases public institutions with international reputations have become largely privatized because of their ability to draw in customers from outside state lines. This relieves the state of a financial obligation, but unless substantial provision is made for financial aid this development may limit

access for in-state residents unable to pay the high rates. On the other hand, having control over revenues that do not automatically count against other sources of support could encourage an institution to enroll more students to increase access.

- **Sufficiency:** Many suspect that a distributed system tends to make available more resources as a whole to higher education. Individual institutions have an incentive to earn more revenues by enrolling students, and the level of state funding, because it is treated separately, is subject to greater transparency. It has been observed all across the country that declines in general fund support are almost always offset by an increase in tuition and fees. Such declines are more obvious where each source of funds is treated separately. However, the level of state general fund support may be determined by factors having nothing to do with the amount of student-derived revenues available, and how those revenues are treated may have no implications for the level of general fund support.
- **Quality:** A distributed system that provides incentives to compete for new students should have a beneficial effect on quality, but, as noted above, there may be a temptation to raise rates rather than manage costs where students come from a more captive pool. Increased recruitment of out-of-state students does have the effect of making the student body more diverse, enhancing the educational environment. If, in fact, a distributed system has the effect of mobilizing more revenues for higher education, that too could lead to quality improvements.
- **Accountability:** As states' shares of higher education funding have declined, and tuition and fees have increased, more accountability will be required for the ways in which these revenues are spent. The practice in Nevada, where the fees in the self-supported budget are applied to dedicated purposes, represents a good level of transparency. In principle, it is easy in a distributed system for tuition and fees to be accounted for in a transparent way. The need for accountability explains the practice in those states where tuition and fees are retained and controlled by institutions, but are treated formally as part of the state budget and subject to state appropriation before they can be disbursed.
- **Equity:** Students themselves are private beneficiaries of higher education, but the benefits of their education also extend to society as a whole. The mix of student tuition/fees and state support that sustains public higher education should reflect society's judgment on the appropriate balance between these two sources of funds. In a distributed system, careful accounting is required to make that balance transparent, whereas the balance is more clear-cut in an integrated system.
- **Alignment:** The case for a distributed system is strongest when it comes to aligning curricula and programs with the economic structure of a regional economy. Each institution has good information about local needs, and a distributed system is best able to provide an incentive structure that rewards local initiatives and innovative programs that meet workforce needs.

If the goal is to incentivize alignment and entrepreneurship, then the best practice may be for higher education institutions to retain control over their own student-derived revenues. Different institutions have different missions, which results in different costs for the delivery of instruction and services. The average cost may be higher at institutions that have a residential mission and/or a research college mission and may be lower at institutions with a commuter population. Taxpayers should (and do)

question why they should pay different prices for equivalent classes delivered at different institutions. The students who choose to attend a higher average cost university should pay for the difference in cost, and those tuition and fee revenues should go toward the price differential in the cost of delivery.

However, the implications identified for each policy area suggest that there is no simple answer to the way tuition and fees should be treated.

3. Treatment of student-derived revenues in Nevada: current and proposed practices

Student-derived revenues under the current NSHE funding model

Student tuition and fees are revenue sources for Nevada higher education institutions that are collected by each institution. The Nevada constitution does not allow residents to pay tuition; however, residents are assessed a registration fee. The registration fee is a per-credit charge that is set at a different amount for each institution by the Board of Regents. The fee is based on the recommendation of the Tuition and Fee Committee (which is comprised of campus presidents and student representatives). Every student is assessed the registration fee. In addition, nonresident students are assessed an out-of-state tuition charge. These fees and tuition (together with a less significant source of revenue, termed “miscellaneous student fees”) are what this report refers to as “student-derived revenues” in Nevada.

All nonresident tuition is budgeted as revenue in the NSHE state-supported operating budget. However, only a portion of student registration fees is budgeted through the state-supported operating budget. Historically, 60%-76% of student registration fees were budgeted in that way.¹⁴ Although the NSHE Board of Regents sets tuition and fee levels, the Legislature requests that student-derived revenues be budgeted through the state-supported budget, in order for “the money committees, students, and the public to more clearly understand how each institution intends to expend additional revenues.”¹⁵ The decision of how much of the student registration fees are budgeted through the state-supported budget is an important one since, as mentioned before, legislative budget policy towards the state supported budget has been to *account* for student-derived tuition/fees first and then fill the balance with state general funds, although student fees and nonresident tuition dollars remain on campuses.¹⁶ In other words, the share of student-derived revenues that are in state-supported operating budgets is the “first dollar counted” for each individual institution before general funds are appropriated.

The Board of Regents can also direct portions of any increase in student fees to the NSHE capital and general improvement funds, which are part of an institution’s self-supported budget – meaning that this portion of the fees is not budgeted via the state-supported budget. Over the years, this practice has resulted in a declining percentage of total student fees being budgeted through the state-supported budget. In 2005, the Legislature sent a letter of intent to NSHE requesting that this decline in the percentage of student fees included in the state-supported budget be reversed, saying “decreasing percentages of student fee allocations to the state-supported budget results in higher General Fund

¹⁴ Fiscal Analysis Division, Nevada Legislative Counsel Bureau. *Education. 2011 Appropriations Report*. <http://www.leg.state.nv.us/Division/fiscal/Appropriation%20Reports/2011AppropriationsReport/2011AppropriationsReport.cfm>.

¹⁵ Morse Arberry, et al. Letter to Daniel Klaich, Chancellor, NSHE. Sept. 8, 2009. *2010-2011 Nevada System of Higher Education Operation Budget*. p. 14.

¹⁶ Fiscal Analysis Division, Nevada Legislative Counsel Bureau. *Education. 2011 Appropriations Report*. <http://www.leg.state.nv.us/Division/fiscal/Appropriation%20Reports/2011AppropriationsReport/2011AppropriationsReport.cfm>. P. 148.

operating appropriations than would otherwise occur. As a result, the money committees wish to communicate that any future Regent-approved fee allocations to the state-supported budget that are below current cumulative percentages may not be supported by the Legislature in corresponding General Fund appropriations.”

Student-derived revenues under the NSHE-proposed alternative funding model

The NSHE alternative funding model proposes to remove all student-derived revenues from the state-supported budget. As stated in their document quoted below, this would result in the higher education funding formula being used to allocate general fund dollars only:

*The proposed model allocates General Fund dollars only without the inclusion of student tuition and fees. The funding model then provides that each institution will retain 100 percent of student registration fee and nonresident tuition revenues generated at that institution. The level of student fee revenues generated by an institution does NOT impact the amount of General Fund support generated by the new funding model.*¹⁷

The separation of own-source revenues from the state supported budget, as proposed by NSHE, may be desirable. However, careful consideration should be given to those additional steps necessary to ensure that such a change leads to increases in *access, quality, and efficiency*. These might include conditions that require increased student aid, new cost controls, and the adoption of new performance criteria (which are, in any event, being contemplated by NSHE). Such a change would also have to be accompanied by clear accountability.

¹⁷ . Nevada System of Higher Education. *A New Model for Funding Higher Education*.

III. Alignment and Performance: Recommended Principles for Higher Education Funding Reform in Nevada

To achieve economic renewal, innovation, and diversification in Nevada, NSHE's new funding model needs to: 1) drive NSHE institutions to align their activities around state goals, and 2) to significantly improve their performance.

In light of the issues reviewed above, the following sections outlines some key strategies for embedding **alignment** and **performance** in Nevada's new funding model, and recommends institutional arrangements necessary to support these strategies.

A. Alignment

Alignment	Alignment of Nevada's higher education with the state's economic goals will help grow those sectors targeted for economic development and diversification, and will foster the innovation systems needed by small and medium enterprises.
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1. Higher education funding should support and reward institutions that graduate students with the mid-level skills essential for growing Nevada's new target industry sectors.

The sectors identified in *Unify/Regionalize/Diversify* represent opportunities for Nevada to shift towards more skill-intensive and technology-intensive economic activities. That shift will begin with the growth of businesses that require mid-level skills – i.e., certificates, two-year, and four-year degrees. For example, the report notes that disaggregation of work into discrete tasks in the health and medical services field (one of the seven broad sectors targeted in the report) has created opportunities for middle skill, middle-income jobs. Nevada's colleges (CSN, WNC, GBC, TMCC) and Nevada State College are likely to provide the overwhelming number of graduates in these areas.

Therefore, a central feature of a new higher education funding model should be to provide the incentives and the support necessary for Nevada's access institutions to admit and train a relatively poorly prepared student pool for a clearly defined set of workforce opportunities characterized by mid-level skills.

This will require adequate funds and deep engagement with the local economy. Here we see that the institutional framework is as important as the funding model. To align workforce needs with curricula requires regionally specific analysis at a high level of granularity. The first requirement is an estimate of the existing qualifications, skills, and abilities of each region's workforce based on current employment patterns. Then the skills associated with key occupations in targeted industry clusters must be estimated. Together, these two pieces can be used to perform a gap analysis, allowing workforce boards, higher education, and other stakeholders to identify the programs needed to develop the qualifications, skills, and abilities that may be in short supply. The higher education funding formula should then reward institutions for the graduation of students that fill these gaps in the workforce.

- 2. Institutional autonomy and alignment to workforce needs should be encouraged through three mechanisms: 1) establishing a separate governance structure and funding channels for community colleges; 2) retaining fees and out-of-state tuition by individual institutions; and 3) establishing differential fees for high-demand programs.**

The current governance structure for community colleges in Nevada is poorly adapted to achieve local and regional workforce alignment of the kind described above. We recommend that community colleges in Nevada, as in most other states, become part of a separate governance structure – one perhaps still subject to the overall control of the Board of Regents. This structure should allow for the creation of local boards to direct and support each institution, a key mechanism for achieving local alignment. Furthermore, if appropriate legislation can be designed, we recommend that local revenues be mobilized in support of each community college. These could be revenues raised through county government, based on a menu of possible mechanisms (e.g., property tax, vehicle registration fees, transfer taxes, etc.) and subject to local voter approval. (We note, however, that any additional revenues to community colleges via such mechanisms should not count against their share of general fund revenues.)

As additional support for institutional alignment with workforce needs, we recommend two additional practices: the retention of fees and out-of-state tuition by higher education institutions, and the autonomy to set differential fees for programs in demand (note that the principle of differential fees has already been accepted by NSHE). For example, some classes in high-demand allied health fields cannot be offered frequently enough because of the high costs of running such courses. More generally, this kind of institutional autonomy will foster an entrepreneurial approach to the development of new curricula and new courses (an entrepreneurial attitude that would be magnified by altering the governance structure for the community colleges, as discussed above).

- 3. Higher education funding should reward institutions for graduating more students with degrees in higher-demand fields (e.g., STEM, allied health, etc.).**

The workforce and economic development goals of the State of Nevada should be more generally supported in the higher education funding formula by giving all institutions added credit for students who graduate in STEM and other key fields. NSHE's alternative funding proposal supports credit hours in many STEM fields at a higher level due to the cost of operating these programs. But institutions should also be rewarded because of the desirability of STEM graduates. Additional weight for STEM and allied health graduates (above and beyond the costs associated with their education) would create incentives for the production of degrees in demand.

- 4. The state's higher education funding formula should be focused wholly on instruction, with research activities funded through the newly-created Knowledge Fund.**

After careful consideration, we recommend that general fund support for NSHE through the higher education funding formula should be focused wholly on instruction. There is an appropriate and critical role for state support of research aligned around economic development goals, but that support should be provided through a separate, parallel mechanism. The state's newly-established Knowledge Fund offers such a mechanism:

Money in the Knowledge Fund may be used by the universities and the Desert Research Institute to provide funding for: (1) the recruitment, hiring and retention of faculty and teams to conduct

research in science and technology; (2) research laboratories and related equipment; (3) the construction of research clinics, institutes and facilities and related buildings; and (4) matching funds for federal and private grants that further economic development. In addition, money in the Knowledge Fund will be used to establish a technology outreach program at strategic locations throughout Nevada. Further, the bill authorizes the University of Nevada, Las Vegas, the University of Nevada, Reno and the Desert Research Institute to enter into agreements for the allocation of commercialization revenue generated from programs receiving money from the Knowledge Fund. (Assembly Bill 449, Chapter 507, Statutes of Nevada 2011).

The aims of the Knowledge Fund should be more specifically aligned around the economic development goals of the state. Research excellence at UNR and UNLV is part of their mission, but, like other states, the State of Nevada is not in a financial position to treat all research initiatives equally. Faculty should be recruited, labs and centers constructed, and research grants matched in areas that directly map onto the economic development targets and sectors in the state's economic development plan.

The *Unify/Regionalize/Diversify* report notes, in particular, three important channels for supporting research at NSHE institutions: support for university-industry collaboration, recruitment of star faculty, and matches for competitive public and private grants (p. 110-113). We see industry-university collaboration as most valuable because of the likelihood of the near-term payoffs to business: increased innovation, new investment, and jobs. Such proposals should be heavily weighted when awarding money. The other two approaches should be less heavily weighted as having a more long-term payoff.

The Knowledge Fund is not yet funded, although we understand that it is a high priority for the state's leadership. Looking for revenue from the state's general fund will be a challenge. Furthermore, in order to ensure the longevity of the fund, a separate, dedicated funding source ideally should be identified. Although it is beyond the scope of this study, we note here one possible solution that represents an appropriate match between revenue source and spending purpose: the Knowledge Fund could be funded through a state severance tax, set at a very low level. The tax would be dedicated to the Knowledge Fund alone, not to the general fund. The majority of the funds raised would be used to fund research subject to the criteria identified above. A small part of the funds raised could provide additional support to two institutions of direct importance to state's natural resource industries (*see further specifics below about these two institutions*).

5. Institutions of special importance because of their role in a region or area of research should be granted a baseline level of institutional support.

The Desert Research Institute (DRI) is part of the existing funding formula, but not part of the alternative proposed formula.¹⁸ This may be a cause for concern in the future. Yet, many of DRI's activities are easily aligned with the state's economic development assets, especially in the area of natural resources. While we would expect DRI to compete for funds from the Knowledge Fund alongside UNR and UNLV, we recommend in addition that it be granted a baseline level of general institutional support.

One other source of support for DRI could be tuition. In one or two areas – e.g., atmospheric sciences, hydrological sciences – DRI provides distinguished faculty to teach classes at UNR. These classes attract out-of-state students. This arrangement is based on a year-to-year memorandum of understanding

¹⁸ DRI may be included in the performance pool in the future.

between the two institutions. One improvement that would help establish DRI's revenues on a more reliable basis would be for it to share in the out-of-state tuition generated by the classes its faculty members teach at UNR.

Great Basin Community College (GBCC) also delivers workforce services of direct benefit to the natural resource sector. Because of its extremely large service area, it is impossible for GBCC to deliver its services as cost-effectively as other institutions. The state should also provide GBCC with a baseline level of general institutional support in light of these special circumstances and its specialized mission.

B. Performance

Performance

Nevada expects a relentless overall increase in the production of well-prepared college graduates from its institutions of higher education, with the goal of long-term improvement in educational attainment level of the population.

1. **The state's higher education funding formula should continue to provide significant support for remedial courses and counseling, as remedial services are critical for the success of Nevada's higher education student population.**

Successful remedial education will be critical for the future of Nevada's higher education and economic goals, given the characteristics of the state's student population (as described above). The failures of remedial education across the country, as well as in Nevada, are widely recognized.¹⁹ The recent report *Fresh Look at Nevada's Community Colleges Task Force* (August 2011) has recommended that remedial education be revamped in Nevada, proposing that funds for remediation at community colleges be directed away from remedial classes and towards other, wrap-around services (counseling, etc.) needed to help these population groups succeed. It proposes that adult learners find private providers for remedial courses. It also notes that the K-12 system represents part of the solution by more effectively discharging its responsibility to graduate prepared students. But improvements in this area will take a long time, and elimination of critical remedial services would likely have significant negative impacts in the short-term that would impede the state's progress toward its economic goals.

For this reason, we have significant reservations with the idea that community colleges should no longer offer remedial classes. Intensive student services are needed, and students that can take classes for credit with appropriate assistance should be directed away from remedial offerings. But success in this area is so critical that the higher education funding model should give extra weight to the need for both remedial classes and hands-on counseling. There is uncertainty at present over best practices in remedial education – NSHE is working diligently on improvement in this area – but we can be sure that it will be relatively resource intensive.²⁰

¹⁹ <http://www.completecollege.org/docs/CCA-Remediation-final.pdf>

²⁰ Faculty from NSHE institutions have been working with leadership provided by Complete College America, Education Commission of the States, and the Western Interstate Commission on Higher Education to redesign remedial course content, instructional design, and placement methods.

2. Nevada's higher education institutions need to establish seamless articulation agreements and clear practices on transfer credits, to help increase graduation rates.

It is important to ensure that students who transfer between institutions within the State of Nevada, or who bring credits with them from out of state, are able to easily apply these credits to their degree. In addition, in the future, enrolled students who choose to take high-quality online courses consistent with their degree requirements should also be able to easily apply them to their degrees. Credits however acquired should not be wasted, and administrative practices and possibly other incentives encouraging the transfer and acceptance of credits can help increase graduation rates. Articulation agreements and other practices are the mechanisms that allow true institutional differentiation to function properly.²¹

3. Nevada's funding formula should encourage differentiation across the state's higher education institutions.

The main way to increase Nevada's graduation rates and educational attainment levels is to incorporate incentives into the higher education funding formula that reward institutions for graduating more students in less time. Here Nevada's leadership should emphasize different paths for different institutions. UNR and UNLV continue to identify themselves as access institutions. We recommend instead that these institutions should become more selective over time, focusing on specialized undergraduate offerings outside the common core of classes at the lower level, blending these students with transfers from elsewhere at the upper division level. The base formula should reward UNR and UNLV for focusing on upper division preparation for four-year degrees, graduate degrees, and research. In this spirit, the 10% for research added to the formula for UNR and UNLV should be added, instead, to the formula weights for higher-level classes.

Some may argue that transfer students at present are not prepared to the same level as students who enter as freshman. The solution lies with the access institutions themselves. For example, students on a path at a two-year college towards transfer to a four-year degree could take honors classes specifically designed for an academic track. In addition, we recommend that the two-year institutions and NSC be rewarded for offering remedial classes and wrap-around services to students that require extra support, specializing in service to this critical population group.

4. Performance-based incentives included in the funding formula should emphasize progress metrics and graduation rates for all types of institutions, and should consider NSC as a separate type of institution from the state's other two-year and four-year schools.

For all levels and types of institutions, there should also be appropriate performance incentives written into the funding formula. The proposed alternative includes rewards for total number of graduates produced, and rewards for progress. We believe that significant attention needs to be paid to progress metrics for all types of institutions and to the graduation rate (i.e., time to degree). While a simple metric such as graduates per FTE captures this aspect of performance, we also recommend that the six year graduation rate, as measured by IPEDs, subject to the amendments recommended by Complete College America, should be carefully considered, being the actual outcome policy makers care about.

²¹ It may be argued that the imperative for seamless articulation across institutions is at odds with the recommendation for a separate governance structure for two-year/community colleges. But it is by no means clear that is harder to negotiate and implement MOUs and shared practices across institutions just because they belong to different but not fundamentally dissimilar systems of governance.

5. NSHE should monitor quality of higher education using an independent, valid assessment tool that can track skills across time and across groups of students.

One other element of performance discussed above needs to be reiterated and, eventually, included in the performance pool. Since producing more graduates more quickly could potentially impact quality, NSHE must make an immediate commitment to tracking quality. Independent assessment of learning outcomes is an important and accepted form of quality control for higher education. This should be accomplished through the use of an independent, valid measure of skills across time and across groups of students. As noted above, we believe that the Collegiate Learning Assessment is a useful tool for this kind of assessment, but several comparable measures exist, NSHE should identify an appropriate measure and begin data collection immediately.

IV. Recommended Higher Education Funding Model for Nevada

The vision embodied in the funding principles and approach outlined above is utilitarian. It should be, given the goals and constraints faced by the State of Nevada. It is aimed at achieving the goals of increased alignment and improved performance in the state's higher education system. These goals will be achieved through both financial incentives and institutional changes. The principal elements of the recommended funding approach are summarized in *Table 1.3* below.

Table 1.3. Recommended elements of a new higher education funding model for Nevada.

Alignment	<ul style="list-style-type: none"> • Access institutions should produce graduates with mid-level skills in targeted sectors. • Two-year colleges should be granted significant autonomy, local control, and retain own-source revenues • All NSHE institutions should retain their own fees and tuition, and have the autonomy to charge differential tuition for high cost and/or high demand fields. • All NSHE institutions should be rewarded for producing STEM and allied health graduates. • Research support should be aligned around targeted sectors and innovation. • Research should be funded from a separate, dedicated source. • Specialized institutions with specific missions should receive baseline financial support.
Performance	<ul style="list-style-type: none"> • Remedial success should receive significant financial support. • Articulation should be seamless across institutions. • Differentiation among institutions should be accepted and encouraged. • Institutions should be rewarded for producing more graduates in less time. • Independent measures of quality should be adopted.

The components of the performance pool and metrics necessary to realize this approach are reported in *Table 1.4* below, weighted and organized into three separate institutional categories.

Table 1.4. Recommended performance metrics for a new higher education funding model for Nevada.

UNR and UNLV	
<ul style="list-style-type: none"> • Metric for the production of Bachelor's, Master's and Doctoral degrees (medium weight).²² • Metric for the production of graduates in STEM and allied health fields (additional medium weight). • Metric that captures improvement in graduation rates (heavy weight), for example year-to-year improvement in 6-year graduation rate as defined by IPEDS, as amended by CCA. • Metric that captures student progress (light weight). For example year-to-year improvement in the completion ratio, defined as the ratio of degrees granted to full-time enrolled undergraduates. • Metric that captures at risk student progress (light weight). For example Total unduplicated number of minority or Pell grant eligible students who graduated during an academic year with a bachelor's degree. 	
NSC	
<ul style="list-style-type: none"> • Metric for the production of Associate's and Bachelor's degrees (medium weight).²³ • Metric for the production of graduates in STEM and allied health fields (additional medium weight). • Metric for the production of Associate's and Bachelor's degrees in targeted workforce development sectors (additional medium weight, but no double counting of STEM and allied health graduates). • Metric that captures improvement in graduation rates for Associate's and Bachelor's degrees (heavy weight), for example year-to-year improvement in 3- and 6-year graduation rates as defined by IPEDS. • Metric that captures at-risk student progression (medium weight). For example, total number of Pell-eligible freshman that achieve 30 cumulative college-level credit hours in the reporting year. • Metric that captures progress of remedial students (medium weight).²⁴ 	
2-Year Colleges	
<ul style="list-style-type: none"> • Metric for the production of Associate's degrees (medium weight).²⁵ • Metric for the production of Certificates (light weight). • Metric for the production of transfer students with 24 student credit hours (medium weight).²⁶ • Metric for the production of Associate's degrees in STEM and allied health fields (additional medium weight). • Metric for the production of Certificates and Associate's degrees in targeted workforce development sectors (additional medium weight, but no double counting of STEM and allied health graduates). • Metric that captures improvement in graduation rates for Associate's degrees (heavy weight), for example year-to-year improvement in 3-year graduation rates as defined by IPEDS. • Metric that captures at-risk student progression (medium weight). For example, total number of Pell-eligible freshman that achieve 30 cumulative college-level credit hours in the reporting year. • Metric that captures progress of remedial students (medium weight).²⁷ 	

The implementation and scale of a performance pool is certain to be sensitive. It should be implemented in stages, perhaps over a five-year period. Institutions cannot be held harmless; the purpose of a performance pool is to expose them to penalties in the event of performance shortcomings. However, extra resources may be made temporarily available if the negative impact on an

²² As defined in the NSHE alternative proposed model, although an alternative approach could measure annual percentage growth in degrees granted.

²³ As defined in the NSHE alternative proposed model, although an alternative approach could measure annual percentage growth in degrees granted.

²⁴ As defined in the NSHE alternative proposed model.

²⁵ As defined in the NSHE alternative proposed model, although an alternative approach could measure annual percentage growth in degrees granted.

²⁶ As defined in the NSHE alternative proposed model.

²⁷ As defined in the NSHE alternative proposed model, at-risk students defined by Pell eligibility.

institution's budget exceeds some pre-determined threshold. The surest path to smooth implementation is the engagement of all institutions in developing the details of the plan.

The scale of the performance pool is the most sensitive question of all. As reported in *Part 2* of this report, many states have very limited performance pools, while Tennessee has turned 100% of its state formula support into a performance pool. The key question is the threshold above which the rewards available will actually alter institutional behavior. Many recently adopted performance pools aim at a target level of 25% of state funds tied to performance-based criteria.

The issue of equity among NSHE institutions requires a final comment. The perception of equitable treatment – by geography or across institutional type – is important if the funding model adopted is to have wide stakeholder and popular support, which is indispensable for long-term success. One straightforward path to credibility is to make the policy goals pursued very transparent, and to make clear the tight connections that exist between the goals and the funding mechanisms. That is an important purpose of the framework and principles recommended above.

PART 2:

States' Methods for Funding Higher Education

I. Introduction

States' determinations of funding levels for higher education vary from state to state, and in some cases within states in several major ways:

Formula versus Non-Formula Funding Methods: According to SRI's research, seventeen states currently use a formula to calculate funding levels for higher education institutions. Nineteen states use non-formula-based funding methods, while an additional fourteen states have hybrid models (typically using formulas to fund two-year institutions and non-formula methods for four-year institutions or using a "base plus" approach where the plus is calculated by a formula). Generally, as we show below, both formula- and non-formula funding tends to be driven by student enrollment – formally in the case of formulas and informally in non-formula funding. Recently, higher education funding formulas have not been fully funded in many states, and so state appropriations are only a fraction of what the funding formula recommends. States that do not use formula-based methods tend to fund based on legislative priorities/policies or based on a "base plus" method.

Performance-Based Funding Methods: SRI research indicates that thirteen states currently use performance-based funding methods (and more than five states have definite plans to implement performance funding, while at least fourteen others are considering doing so). Use of performance criteria tends to be most common in formula-based states, although a couple of non-formula states also apply performance criteria. The most typical performance metrics incentivize completion by measuring degrees or certificates awarded, but many other metrics can potentially be used to measure outcomes, progress, and other policy and economic development goals. Performance-based funding mechanisms have been used by states at least three decades, with mixed results, and a number of states have cut their programs due to lack of alignment with state politics, complexity, lack of available data, or lack of funding. Some key determinants of success for performance-based funding are the size of the performance pool (i.e., are performance-based funds a large enough share of institutional funding to incentivize behavior?) and also whether performance funding is allocated as "bonus" funding or whether it is tied to baseline institutional support.

Use of Student-Derived Revenues: The most common model is for student-derived revenues (i.e., tuition and fees) to be controlled and retained by individual higher education institutions, and just over 40 states follow this model. In twelve states, however, student-derived revenues must be appropriated by the state legislature (and in three of these states, student-derived revenues are used to offset general fund appropriations). The dominant model of institutions retaining and controlling their student-derived revenues may be attributed to the fact that tuition and fees have historically represented a very small percentage of higher education budgets; however, this trend is changing (tuition revenues are going up, while state appropriations are going down). Many states are reviewing their policies as student-derived revenues move toward becoming the majority of public institutions' revenue streams. Additionally, some states are now requiring performance-based measures to be met for schools to gain increased autonomy over student-derived revenues.

Detailed analysis and data about states' approaches for each of these funding methodologies are presented throughout the rest of *Part 2* (and additional state-specific details are provided in *Appendices A, B, and C*).

II. States That Use a Formula for Higher Education Funding

A. List of states that use higher education funding formulas

As shown in *Table 2.1*, seventeen states determine currently or very recently funding through a formula, while an additional fourteen states use a hybrid model, in which a formula is applied only for certain types of institutions or parts of the allocation (such as the “plus” in “base plus”). In the states with a hybrid model, the formula is typically applied for two-year institutions, but not for four-year institutions. Five states – Arizona, Nevada, Florida, Massachusetts, and New York – have used funding formulas in the past, but have not employed the formulas for some or all institutions during fiscal downturns.

Table 2.1. States that use or have used formulas to fund their higher education systems.

States currently using formulas		States that use a hybrid system – <i>formula is used only for the specified type of institutions</i>
Alabama	Ohio	California (for CSU, CCC only)
Arkansas	Oregon	Florida (for 2-year institutions only)
Connecticut	Pennsylvania	Hawai'i (for 2-year institutions only)
Georgia	South Carolina	Illinois (for 2-year institutions only)
Louisiana	Tennessee	Kansas (for 2-year institutions only)
Minnesota	Texas	Maryland (for Regional Higher Education Centers ²⁸ only)
Mississippi	Virginia	Montana (for 2-year institutions only)
		New Jersey (for 2-year institutions only)
		New Mexico (for new funding only)
		New York (for 2-year institutions only)
		South Dakota (for federally-funded technical schools only)
State that have recently used formulas, but are not currently employed.		
Arizona		
Florida (formula dropped for 4-year institutions only)		
Massachusetts		
Nevada		
New York (formula dropped for 4-year institutions only)		
States that use a hybrid approach of “base plus” where the plus is calculated by a formula		
Idaho		
Indiana		
North Carolina		

²⁸ Regional higher education centers were established by law in 2000 to provide another option for high school graduates seeking further education. These centers provide access to affordable higher education in areas of the State which have few institutions of higher learning. They also provide courses and programs needed by business and industry in the area served.

B. Typical components of state higher education funding formulas

The complexity of funding formulas varies widely from state to state. Virginia, for example, has a very complex set of formulas for each different type of institution, while Arizona used a simple formula based solely on full-time equivalent (FTE) students. Every state that uses a formula also utilizes non-formula appropriations to fund everything from operations and maintenance to special programs to entire schools.

State funding formulas typically consist of a subset of the following list of ten budgetary functional areas:

1. Instruction
2. Remedial Instruction
3. O&M/Physical Plant
4. Academic Support
5. Library Support
6. Student Services
7. Institutional Support
8. Public Service
9. Research
10. Scholarships

There are slight variations in how each state specifically defines each function, but this list reflects the most commonly used general definitions. Most state formulas only contain a fraction of the list, as shown in *Tables 2.2-2.12*. Almost every state with a formula has an instruction component and most have a plant and maintenance category. The following sections provide additional details about the typical methods used by states for calculating funding levels within each of the ten functional areas. Note that a detailed explanation and narrative for most of the individual states that use funding formulas is provided in *Appendix A* and narratives for states that have hybrid funding models are provided in *Appendix C*.

1. Instruction

The formula for instructional support aims to fund activities associated with an institution's instructional program. Every state but New York with a formula funds instructional activities through the formula, and the instructional support formula accounts for the vast majority of the calculated funding levels. No two states use the same formula, and some states use multiple formulas based on different institutional missions. However, two main types of instructional formulas are typically used, as illustrated in *Table 2.2*. Each type of formula is explained in greater detail below.

- **Method 1:** The first type of instructional formula is based on a conversion from FTE enrollment to FTE faculty multiplied by a salary rate.
- **Method 2:** The second type of instructional formula is based on student credit hours that are then multiplied by a cost and program level weight and a rate or an inclusive cost matrix. This type of formula is also used as a performance-based funding mechanism where, instead of *enrolled* student credit hours, *completed* student credit hours are used.

Table 2.2. States that include an instructional support component in their funding formula.

State	Type of Institution	Formula currently employed, or will definitely be implemented	Formula Driver
Alabama	Senior Institutions	Yes	credit hours
	Community colleges	Yes	FTE enrollment
	Technical colleges	Yes	FTE enrollment
Arizona	Senior institutions	No	credit hours
Arkansas	Universities	Yes	credit hours
	Community Colleges	Yes	credit hours
California	CalState	Yes	credit hours
Florida	Community colleges	Yes	enrollment
Georgia	4-year Institutions	Yes	credit hours
Idaho	2- and 4-year Institutions	Yes	enrollment
Illinois	Community colleges	Yes	credit hours
Indiana	2- and 4-year Institutions	Yes	enrollment and successfully completed credit hours
Kansas	Community colleges	Yes	enrollment
Louisiana	2- and 4-year Institutions	Yes	completed credit hours
Maryland	Regional Higher Education Centers	Yes	enrollment
Massachusetts	2- and 4-year institutions	No	enrollment
Minnesota	2- and 4-year institutions	Yes	enrollment
Mississippi	Senior institutions	Yes	credit hours
Montana	Community colleges	Yes	enrollment
New Jersey	Community colleges	Yes	credit hours
New Mexico	2- and 4-year institutions	Yes	credit hours, degrees produced
North Carolina	Senior institutions	Yes	credit hours
	Community colleges	Yes	enrollment
Ohio	University main campuses	Yes	completed courses
	University regional campuses	Yes	completed courses
	Community and technical colleges	Yes	enrollment
Oregon	Senior institutions	Yes	enrollment
Pennsylvania	Senior institutions	Yes	enrollment
South Carolina	Senior institutions	Yes	Student credit hours
South Dakota	Federally-funded technical schools	Yes	enrollment
Tennessee	2 and 4-year Institutions	Yes	output metrics
Texas	General academic institutions	Yes	credit hours
	Health-related institutions	Yes	credit hours
	Community colleges	Yes	contact hours
	Vocational & technical schools	Yes	contact hours
Virginia	2- and 4-year institutions	Yes	enrollment

Instructional Formula Method 1: Enrolled credit hours → FTE students → Faculty positions

Nevada under its most current formula and Virginia are examples of states that transform student enrollment hours into full-time equivalent (FTE) faculty positions through the use of “FTE student enrollments to faculty” ratios.

- In Arizona, an FTE student is defined as 15 credit hours for lower division classes, 12 credit hours for upper division classes, and 10 credit hours for graduate classes.
- In Virginia, the formula defines an FTE as all of the students in full-time standing (taking 12 or more credit hours) plus one-third of the part-time students.²⁹
- In 1999, the Nevada Legislature Committee to Study the Funding of Higher Education recommended a change from the previous definition of a FTE (which was defined at 30 student credit hours per year for undergraduate students and 16 credit hours per year for graduate students). The recommendation was to differentiate the graduate student hours into a doctoral level student FTE equaling 18 student credit hours and a master’s level student FTE equaling 24 student credit hours. The Nevada colleges were directed to use 30 student credit hours as the definition of an FTE for both lower and upper division credit hours.

Once FTE students are calculated, these schools then use a ratio to calculate the number of faculty positions. The transformation was simple in Arizona, which funds one faculty position for every 22 FTE students. It is more complicated in Virginia and Nevada, which have different FTE student to faculty position ratios for different disciplines and division levels, creating a two-dimensional matrix. Nevada’s ratios are listed in *Table 2.3*. The Virginia ratio matrix lists out specific disciplines instead of using categories such as “low cost” and “high cost” like Nevada.

Table 2.3. Student faculty ratios in Nevada.³⁰

Student Faculty Ratios for the Universities				
Type of Program	Lower Division	Upper Division	Masters	Doctoral
Clinical	8	8	8	8
High Cost	18	13	10	8
Medium Cost	21	16	13	8
Low Cost	26	22	16	8
Student Faculty Ratios for Nevada State College				
Type of Program	Lower Division	Upper Division	Masters	
Clinical	8	8	8	
High Cost	18	15	12	
Medium Cost	21	18	15	
Low Cost	26	24	18	
Student Faculty Ratios for Remaining Nevada Colleges				
Type of Program	TMCC & CCSN	WNCC	GBC Lower Division	GBC Upper Division
High Cost	14	12	12	12
Medium Cost	21	21	21	16
Low Cost	26	26	23	22

²⁹ State Council of Higher Education For Virginia. *Condition of Higher Education Funding in Virginia*. May 2003. P. 9

³⁰ Nevada Committee to Study the Funding of Higher Education. *Bulletin 01-4*. 1999. P. 41.

Once FTEs are calculated, the faculty positions are funded at a set amount depending on the state and may cover only salaries or the sum of salaries, employee-related expenses, and operations. Virginia's funding rate is based on the average faculty salary. Alabama's rate is based on the regional general studies average salary for doctoral and regional institutions, as estimated by the National Association of State Universities and Land-Grant Colleges.³¹ Nevada funds each faculty position based on an academic salary schedule. In addition, some state formulas add funding for an additional support position with a specific number of faculty positions funded by enrollment increases. For example, Nevada adds the cost of a support position with every five additional faculty members, and Arizona's formula adds funding for 0.75 support positions with each additional faculty member.

Instructional Formula Method 2: Student credit hours X cost matrix

Other state formulas – including those used in Texas and in the NSHE proposed funding formula – determine support levels for instruction through the use of student credit hours multiplied by a cost matrix. Most states that employ this type of instructional formula use *enrolled* student credit hours to make the calculation. However, Tennessee and Ohio use *successfully completed* student credit hours, while Louisiana and the NSHE proposed alternative formula use *all completed* credit hours (including credit hours completed with a grade of F).

The formulation of a cost matrix differs from state to state. Texas's program and level weights are determined according to an aggregation of actual costs, based on institutions' annual financial reports. The 2011 program level and weights are listed in Appendix D. This weighted matrix is multiplied by a single rate, which is set by the legislature and is based on available funding. The result is a cost-informed matrix. In Nevada, the NSHE proposed funding formula also uses a cost-informed weighting matrix that is multiplied by a rate based on current state funding; however, the weights are a synthesis of other state's cost matrices. This matrix is also reprinted in Appendix D. Ohio does not build its funding matrix based on available funding, but rather uses a cost matrix based on the previous year's actual costs as a function of subject codes and course level.

Embedding incentives in instructional formulas

Historically, the goals of public higher education institutions have centered on access, interpreted as enrolling as many students as practicable in higher education. It could be said, therefore, that funding formulas based on enrollment (also known as *enrolled* student credit hours) such as those described above, are the best practice to achieve access and enrollment policy goals. However, if the policy goals include higher graduation rates – and such a goal is now being widely considered by states – then funding mainly based on enrollment-driven formulas is not a best practice. The low completion rates that plague states may be associated with instructional funding formulas based solely on enrollment. Formulas based on course completions have been adopted by a few states, but only recently, so the impact of this practice is not yet discernible. However, we may imagine, in principle, that where completion is defined as only those classes completed with a letter grade of D- or above, then this would be a better practice than mere enrollment levels from the point of view of encouraging higher graduation rates.

However, instructional formulas are also driven by other policy decisions. Faculty-based instructional formulas depend on the salary multiplier used. Some states, such as Alabama, use the average salary at

³¹ Alabama uses faculty productive hours to transform enrolled credit hours to faculty positions.

peer institutions. This is a best practice if the policy goal is to maintain state-to-state peer-equity in the funding of higher education funding, and if the student-to-faculty ratios are comparable with peer states.

Program-level and cost matrices can be a best practice to fund according to the actual cost of courses. However, care must be taken in how courses are classified and how cost figures are calculated. Nevada's current formula uses a relatively simple low/medium/high cost funding matrix. Other states, such as Oregon, use a similar funding level matrix, but the matrix is more granular at a discipline level and also reflects policy goals through targeted program funding. The NSHE proposed alternative formula uses a complex matrix that is cost-informed and gives additional weight to upper and graduate classes for research.

Cost matrices must be used with care. Actual cost matrices are resource-intensive to produce, and are also state- and institution-dependent. For example, Ohio and Texas collect cost information from departments every year and then divide by student credit hours. Though it seems intuitive to fund in this way, costs change frequently and will change more frequently in the future as online delivery of courses becomes mainstream. A cost matrix developed this year may be out of date next year. In addition, a purely cost-based approach does not incentivize alignment with state goals. Also, we note that once funds are allocated or budgeted for an institution, the institutions generally have autonomy over those funds. Therefore, funds allocated toward the "cost" of science classes may not actually be used for funding the science classes.

Best practice instructional funding at institutions of higher education may require a move away from purely cost-based matrices and towards a funding matrix in which weights reflect some mix of cost and policy goals, in order to incentivize the funding of specific disciplines that align with state goals. The important questions to be resolved are the specific character of state policy goals, and how they should be translated into instructional weights. For example, it may be that STEM fields should enjoy a premium when compared to cost benchmarks.

2. Remedial Instruction

Some states' formulas provide for increased funding for remedial instruction. Alabama, for example, weights remedial student credit hours at 115% of standard credit hours when calculating the instructional support funding formula. Other states (as listed in *Table 2.4*) fund remedial education explicitly and separately from instructional support. Illinois has a community college-specific funding formula that determines remedial education funding levels based on student enrollment multiplied by the previous year's cost per instructional unit. Generally, enrollment is the primary driver for remedial instruction for two states that explicitly include this category in their formula (Florida and North Carolina community colleges), while completed credit hours are the driver for the other two states (Illinois and Tennessee). Nevada's current formula does not specifically fund remedial instruction differently, except that the Legislature does not pay for remedial education to be taught at the universities. In the alternative model proposal, remedial student credit hours are grouped with the lower division student credit hours for the colleges.³² However, the CIP code 32 is mapped to the Basic Skills Cluster, which has

³² Redding, Vic. Personal Communication. May 11, 2012.

an increased weight of 1.5 for lower division classes. The two digit CIP code 32 does include basic skills and developmental/remedial education.³³

Table 2.4. States that include remedial instruction explicitly in their funding formula.

State	Type of Institution	Formula currently in use, or will definitely be implemented	Remedial Instruction Formula Driver
Florida	Community colleges	No	enrollment
Illinois	Community colleges	No	credit hours
North Carolina	Community colleges	Yes	enrollment
Tennessee	Community colleges	Yes	successfully completed credit hours

3. Operation and Maintenance of Physical Plant

This category includes all expenditures of current operating funds for the operation and maintenance (O&M) of physical plant. It includes expenditures for physical plant administration, utilities, building maintenance, custodial services, landscape and grounds maintenance, and repairs and renovations. Most formula states only include this category for their senior institutions and technical colleges (see Table 2.5), because most community colleges are supported by local revenues. Most formulas are based calculated square feet needed based on enrollment, though some are based either actual square feet. Nevada's current formula is solely dependent on actual square-footage with weighting due to age of the building. Virginia bases its funding levels on a percentage of instructional budgets; therefore its O&M/physical plant funding levels are a function of student enrollment. Texas has a complex space prediction model that is based on full-time-student equivalents with consideration for degree level. In addition, Texas has separate formulas that respectively fund research space, libraries, and office space. Some states include utilities in their O&M/physical plant funding, but recent increases in utility prices have resulted in several states (like Texas) adding additional supplements to the funding levels. The NSHE proposed formula does not include O&M/physical plant as a separate funding category except for research space. The proposed formula includes the cost of operations and maintenance in the instructional cost-informed matrix driven by completed student credit hours. Research facilities at the universities that provide no direct support for student instruction are supported with a separate per square foot formula. UNR's 450,000 square feet of research space is funded at \$7.96 per square foot, and UNLV's 274,499 square feet of research space is funded at \$11.73 per square foot.³⁴

Funding O&M/ physical plant on the basis of simple square feet measures favors institutions with many buildings with no regards to building usage, while formulas based on enrollment (such as Virginia and Texas) result in O&M/physical plant funding being tied to the number of students served. Though it seems unlikely that an institution would regard constructing a new building as an easy method to increase its state allocation, funding based on simple square feet does reward institutions with more buildings regardless of the number of students they serve. On the other hand, if the upkeep of buildings with no educational use is not paid for by the state, this may incentivize wise management, in which

³³ The Integrated Postsecondary Education Data System. Detail for CIP Code 32: **Title:** BASIC SKILLS AND DEVELOPMENTAL/REMEDIAL EDUCATION. *CIP 2010*.

<http://nces.ed.gov/ipeds/cipcode/cipdetail.aspx?y=55&cid=88951>

³⁴ Eardley, Larry. Personal Communication. August 3, 2012.

institutions sell or rent out their extra space. In addition, it may also incentivize institutions to be more efficient in their use of space by offering weekend or evening classes. The best practice to incentivize efficient use of space is to fund O&M/physical plant based on educational usage by tying O&M funding calculations to enrollment levels. Building and maintaining structures is not, in itself, a higher education policy goal.

Table 2.5. States that include a component for operations & maintenance (O&M) of the physical plant in their funding formula.

State	Type of Institution	Formula currently in use, or will definitely be implemented	Formula Driver
Alabama	Senior institutions	Yes	square footage; cost
Arkansas	Universities	Yes	space prediction (credit hours, etc.)
Arkansas	Community Colleges	Yes	space prediction (credit hours, etc.)
Florida	Community colleges	Yes	square footage; cost; enrollment
Georgia	2- and 4-year institutions	Yes	square footage of instructional space
Illinois	Community colleges	Yes	square footage
Louisiana	2- and 4-year institutions	Yes	square footage based on instruction space
Massachusetts	2- and 4-year institutions	No	square footage; cost; enrollment
Minnesota	2- and 4-year institutions	Yes	square footage
Mississippi	Senior institutions	Yes	square footage and enrollment
North Carolina	Senior institutions	Yes	credit hours
Pennsylvania	Senior institutions	Yes	square footage; replacement value; predicted space (credit hour)
South Carolina	Senior institutions	Yes	costs; instructional square feet
Texas	General academic institutions	Yes	space prediction (credit hours, etc.)
	Health-related institutions	Yes	space prediction (credit hours, etc.)
	Vocational & technical schools	Yes	space prediction (credit hours, etc.)
Virginia	2- and 4-year institutions	Yes	space prediction (credit hours, etc.)

4. Academic Support

Some states' funding formulas include a funding category for the support of the institution's primary academic mission such as include computer labs, academic administration, and curriculum development and support. Many states include library costs under this category, but some fund library costs separately. States that employ an academic support category in their formula generally determine the academic support funding level as a specific percentage of the instructional support funding level, and this percentage varies from state to state. Therefore, enrollment is the primary driver for academic support formula components in all of the states that include this category (as shown in *Table 2.6*), with the exception of Louisiana, whose instructional formula is driven by course completion (though since failing grades are funded, it is still basically an enrollment-based formula).

Nevada's current formula for academic support is based partly on the number of FTE faculty members and staff members, number of library volumes, and the instructional budget. In particular, the current formula funds community colleges at 22% of the instructional budgets except for Great Basin College, which is funded at 30% of the first \$7.5 million of the calculated instructional budget, and 25% of any calculated instructional budget over \$7.5 million.

Table 2.6. States that include a component for academic support in their funding formula.

State	Type of Institution	Formula currently in use, or will definitely be implemented	Academic Support Formula Driver
Alabama	Senior institutions	Yes	credit hours
Arkansas	Community Colleges	Yes	credit hours
Florida	Community colleges	Yes	enrollment
Georgia	2- and 4-year institutions	Yes	credit hours
Louisiana	2- and 4-year institutions	Yes	completed credit hours
Massachusetts	2- and 4-year institutions	No	enrollment
Minnesota	2- and 4-year institutions	Yes	enrollment
North Carolina	Senior institutions	Yes	credit hours
Pennsylvania	Senior institutions	Yes	enrollment
South Carolina	Senior Institutions	Yes	credit hours
Virginia	2- and 4-year institutions	Yes	enrollment

5. Library Support

As mentioned above, many states fund library support through the academic support funding formula. A few states determine funding separately for library services, as listed in *Table 2.7*. These formulas are typically based either on total enrollment (headcount instead of FTE) or as a percentage of the instructional support budget (like for academic support). Nevada's current formula funds library support within its academic support formula rather than as a separate funding category. Basically, Nevada's current formula calculates a specific number of library volumes per student, and then funds a specific number of library staff positions based on the number of volumes. Therefore, enrollment is the primary driver for the library support funding formula component for all states that include this category separately.

Table 2.7. States that include a separate library support component in their funding formula.

State	Type of Institution	Formula currently in use, or will definitely be implemented	Library Support Formula Driver
Alabama	Senior institutions	Yes	credit hours
Arkansas	Universities	Yes	credit hours
Florida	Community colleges	Yes	enrollment
Georgia	2 and 4-year institutions	Yes	credit hours
Minnesota	2 and 4-year institutions	Yes	enrollment
North Carolina	Senior institutions	Yes	credit hours
	Community colleges	Yes	enrollment

6. Student Services

This category includes funds expended for offices of admissions and registrars, as well as those activities whose primary purpose is to contribute to students' emotional and physical well-being and to intellectual, cultural, and social development outside the context of the formal instruction program. The category includes expenditures for student activities, cultural events, student newspaper, intramural athletics, student organizations, intercollegiate athletics, student organizations, intercollegiate athletics, counseling and career guidance, and student aid administration.³⁵ As with academic support, states that employ this category in their funding formulas typically calculate funding levels either as a percentage of instructional costs (e.g., Georgia) or based on headcount (full time + part time students) (e.g., Alabama and South Carolina) as listed in *Table 2.8*. Nevada's current formula for student services support is based on a combination of headcount and FTE enrollment; however, it does provide more money per FTE enrollment for the smaller institutions due to economies of scale for the larger institutions. NSHE's proposed formula also includes a small institution factor to cover fixed administration costs. The alternative model includes an adjustment for small community colleges' administrative costs that assumes a base amount of \$1.5 million that diminishes as an institution reaches 100,000 weight student credit hours. Generally, enrollment is the primary driver for student services for most states that include this category in their funding formula. It is a best practice to fund student services based on total enrollment instead of weighted student credit hours, since student needs are not dependent on their program, discipline level, or hours completed.

³⁵ As defined by the National Association of College and University Business Officers.

Table 2.8. States that include a component for student services in their funding formula.

State	Type of Institution	Formula currently in use, or will definitely be implemented	Student Services Formula Driver
Alabama	Senior institutions	Yes	Headcount
Arkansas	Community Colleges	Yes	FTE enrollment and headcount
Florida	Community colleges	Yes	enrollment
Georgia	2- and 4-year institutions	Yes	credit hours
Massachusetts	2- and 4-year institutions	No	enrollment
Minnesota	2 and 4-year Institutions	Yes	base + enrollment
North Carolina	Senior institutions	Yes	credit hours
Pennsylvania	Senior institutions	Yes	enrollment
South Carolina	Senior Institutions	Yes	headcount
Virginia	2- and 4-year institutions	Yes	enrollment

7. Institutional Support

This funding category supports central, executive level activities related to management and long-range planning for the entire institution, such as the president's office, fiscal operations, logistical activities (including procurement, storeroom, safety, security, printing), support services to faculty & staff, and activities concerned with community and alumni relations (e.g., development and fund raising). Georgia, North Carolina, Pennsylvania, and Virginia include institutional support in all of their institutions' funding formulas, while Florida includes it only in the community college funding formula, as listed in *Table 2.9*. Like many of the other funding components, this category is typically funded as a specific percentage of instructional support. However, North Carolina funds institutional support at cost. Nevada's current funding formula funds institutional support at a specific percentage of operating budget, with the percentage level dependent on total operating budgets. The percentages used elsewhere varies from state to state. Again, enrollment is the primary driver for institutional support funding for states that include the category. However, each state controls the total amount of the budget by the percentage with which it weights the component.

Table 2.9. States that include a component for institutional support in their funding formula.

State	Type of Institution	Formula currently in use, or will definitely be implemented	Institutional Support Formula Driver
Alabama	Senior Institutions	Yes	credit hours
Arkansas	Universities	Yes	credit hours
Arkansas	Community Colleges	Yes	FTE enrollment
Florida	Community colleges	Yes	enrollment
Georgia	2- and 4-year institutions	Yes	credit hours
Massachusetts	2- and 4-year institutions	No	enrollment
North Carolina	Senior institutions	Yes	credit hours
	Community colleges	Yes	cost
Pennsylvania	Senior institutions	Yes	enrollment
South Carolina	Senior Institutions	Yes	credit hours
Virginia	2- and 4-year institutions	Yes	enrollment

8. Public Service

A few state funding formulas allocate money for public service, as listed in *Table 2.10*. Public service funds are indicated to foster the continuation and expansion of public service activities. The amount funded is typically a very low percentage of the total budget and is usually based on a percentage of the instructional budget – and is therefore tied to enrollment levels. Neither Nevada's current funding formula or NSHE's proposed formula separately calculates funding for public service.

Table 2.10. States that include a component for public service in their funding formula.

State	Type of Institution	Formula currently in use, or will definitely be implemented	Public Service
			Formula Driver
Alabama	Senior institutions	Yes	credit hours
Arkansas	Universities	Yes	credit hours
Georgia	2- and 4-year institutions	Yes	credit hours
Minnesota	2- and 4-year institutions	Yes	enrollment
South Carolina	Senior institutions	Yes	30% of previous FY sponsored public service and non-general fund public service expenditures

9. Research

Some state formulas include a research component, as listed in *Table 2.11*. This category supports research at institutions typically by adding a small percentage of the instructional support budget to the total calculation (and is therefore usually tied to enrollment levels). For example, Alabama calculates its research funding as 2% of the sum of the estimated costs of instruction, operating expenses, and academic support in addition to 5% of the total sponsored research brought into the institution. South Carolina's research formula component is based on 30% of previous FY sponsored research

expenditures. NSHE's proposed funding allocation model weights upper-division and graduate student credit hours at the universities by 10% more to support research activities at those institutions. Functionally, this would result in completed student credit hours driving the research support.

Table 2.11. States that include a component for research in their funding formula.

State	Type of Institution	Formula currently in use, or will definitely be implemented	Research Formula Driver
Alabama	Senior institutions	Yes	credit hours plus 5% sponsored research amount
Arkansas	4-year institutions	Yes	graduate enrollment
Georgia	2- and 4-year institutions	Yes	credit hours of gradates
Massachusetts	2- and 4-year institutions	No	enrollment
Minnesota	2- and 4-year institutions	Yes	enrollment
South Carolina	Senior institutions	Yes	30% of previous FY sponsored research expenditures
Texas	Health-related institutions	Yes	research expenditures

10. Scholarships

No states currently have a budgetary function in their funding formula for determining the funding levels for scholarships. However, Connecticut higher education funding uses two statutory formulas, both designed to set funding levels for financial aid. The Connecticut Independent College Student Grant Program (CICSG) provides funds for students attending independent schools in the state, and the Connecticut Aid for Public College Student Grant Program (CAPCS), for students attending public colleges. CAPCS is designed to match tuition funds set aside by an institution (at least 15% of all tuition revenue, per the Board of Governors' tuition policy) but is not been fully funded in recent years. Neither Nevada's current funding formula nor NSHE's proposed formula calculates funding for scholarships.

III. States That Do Not Use a Formula for Higher Education Funding

A. List of states that do not use higher education funding formulas

Nineteen states do not employ a formula to determine funding levels for higher education, while an additional ten states have a hybrid system and do not use a formula for some categories of institutions (typically for senior or 4-year institutions). These are listed in *Table 2.12*. Note that a detailed explanation and narrative for most of the individual states that do not use funding formulas is provided in *Appendix B* and narratives for states that use hybrid funding models are provided in *Appendix C*.

Table 2.12. States that do not use a formula for higher education funding.

States currently not using formulas		
Alaska	Michigan	Rhode Island
Colorado	Missouri	Utah
Delaware	Nebraska	Vermont
Iowa	New Hampshire	Washington
Kentucky	North Dakota	West Virginia
Maine	Oklahoma	Wisconsin
		Wyoming
States that use a hybrid system – <i>NO formula is used for the specified type of institutions</i>		
California (for UC only)	Maryland (non-Regional Education Centers only)	
Florida (for 4-year institutions only)	Montana (for 4-year institutions only)	
Hawai'i (for 4-year institutions only)	New Jersey (for 4-year institutions only)	
Illinois (for 4-year institutions only)	New York (for 4-year institutions only)	
Kansas (for 4-year institutions only)	South Dakota (for all institutions other than federally-funded technical schools)	

B. Typical funding approaches in states that do not use formulas

Non-formula funding determination methods vary widely from state to state, from “base plus” methods to purely political ways of determining allocations, as illustrated in *Table 2.13* below and in the detailed state narratives in *Appendix B* and *C*. The two most common methodologies are the following:

“Base Plus” Method: This is the most popular non-formula funding method. The higher education appropriation or funding request is based on the previous year’s appropriation (the base), plus some enhancement or cut – which may be formally or informally based on enrollment (or other performance factors) in some states. States that use enrollments formally in formulas are reviewed in the previous section.

Funding Based on Legislative Priorities: Some states fund simply based on legislative priorities or policies, which could be based on the amount of funding available or on peer equity with other states for higher education funding.

Table 2.13. Summary of states' non-formula funding approaches for higher education.

Base plus/minus	Funding Based on Legislative Priorities
Alaska	New Hampshire
Colorado	North Dakota
Delaware	Oklahoma
Iowa	Rhode Island
Kentucky	Vermont
Maine	West Virginia
Michigan	
Missouri	
Nebraska	
Utah	
Washington	
Wisconsin	
Wyoming	

As shown above, about one-third of the states use formulas and a bit more than a third do not use formulas. The reminding states use a hybrid system. This has not always been the case. Historically, when there were few state institutions of higher education, states funded with no formula; however, as higher education systems became larger and more complex, policy-makers started to look for a more “objective” way to distribute resources as competition for resources grew. Formula funding started in large systems (Texas, California) and then spread, with many states borrowing from Texas’ methods. Formulas are not only based on enrollment (though primary so), they also take in account other factors such as utility costs and differential costs of instruction.³⁶ States that currently use funding formula tend to be southern, and many tie the cost component of their formula to the Southern Regional Board Average Salary.

States that do not use a formula have (until recently) generally appropriated more money to pay for increasing student enrollment. Sometimes that increase was only informally tied to enrollment – i.e., “we have more students, we need more money”. At other times the increase was based on general increases in the state budget or on legislative priorities. However, in recent economic times, higher education appropriations have declined despite increasing enrollments. Some have tied the lack of a formula to declining state support.³⁷ However, states with funding formulas have also seen declining state support as legislatures rarely fully fund the needs estimated by funding formulas.

³⁶ MGT of America. *Evaluation of the NSHE Funding Formula*. May 2011. Please see report for more in-depth discussion of the history of funding formulas.

³⁷ Lowery, Nick. “Missing formula increases tuition.” *The SDSU Collegian*. March 14, 2012.
<http://www.sdsucollegian.com/2012/03/14/missing-formula-increases-tuition-3/>

IV. States' Use of Performance-Related Criteria in Higher Education Funding

A. Background on use of performance-based funding

Higher education policymakers, foundations, and other organizations have recently emphasized the use of performance-based funding in higher education; however, this approach is not new. Since 1979, states have experimented with different types of performance-based funding that went beyond funding systems based simply on enrollments. The results have been mixed, and many programs have been cut due to lack of alignment with state politics, complexity, lack of available data, or lack of funding.

Though many states collect performance-related data, relatively few states actually incorporate performance-related criteria into their funding decisions. In some states, performance metrics are reported to the legislature as part of the system of higher education's annual or biennial budget request, a practice termed "performance budgeting." This approach differs from those states that explicitly tie funding levels to performance-related criteria through a formulaic process ("true" performance funding).³⁸ Furthermore, for performance-based funding methods to be effective, states need to tie performance-related funding to a significant share of an institution's overall income if the criteria are to have an impact on behavior. While there is considerable debate about what constitutes a "significant" share, in the past those states that have implemented performance-based funding have done so at levels too low to truly incentivize behavior.

In other states, a performance pool was formally adopted but never implemented. This is true of the current Nevada funding formula. In 2001, the Governor recommended an allocation of \$3 million for the FY 2002-03 performance pool; however, the 2001 Legislature denied the request because "a comprehensive plan was not provided that specified how the proposed funded would be allocated."³⁹ The pool has not been funded since then. Indeed, the development of clear metrics was not pursued in Nevada because the portion of funding allocated to the performance pool was relatively small. The result of the lack of clear metrics led to the performance pool being returned to the NSHE's general fund appropriation. For performance criteria to change behavior, the metrics must be clear and the dollar amounts significant.

B. Types of metrics used for performance-based funding

Only a handful of states have implemented performance funding after the first wave of performance funding in the 1980s and 1990s. The renewed interest has been spurred by falling budgets and dismal completion rates. Implementation of performance-based funding has been made easier with increased availability and quality of data. Performance indicators fall into three categories: outputs (graduation rates, certificates conferred, etc.), progress (course completion, transfer, credit milestones, etc.), and economic development (high-need degrees, etc.) Most states that use performance-based funding apply output metrics, while very few are using economic development metrics. These metrics are tied to funding – either new funding on top of the base appropriation, some portion of the base appropriation, or the entire formula calculation.

³⁸ As accounted in Carey, K. and C. Alderman. *Ready to Assemble: A Model State Higher Education Accountability System*. Education Sector Report. December 2008.

³⁹ Fiscal Analysis Division, Nevada Legislative Counsel Bureau. Education. *2001 Appropriations Report*. p. 20.

Table 2.14. Types of performance-based funding metrics.

Category	Metrics	Explanation of Metric
Output Metrics	<i>Degrees awarded</i>	Annual number and/or percentage of certificates, associate's degrees, bachelor's degrees, master's degrees, doctorate degrees, and other professional degrees awarded. Exactly which degrees are tracked depends on the state and institution.
	<i>Graduation rates (or "time to degree")</i>	Number and/or percentage of certificate- or degree-seeking students who graduate in a predetermined length of time. On-time rates are defined as two years for associate's degrees and four years for bachelor's degrees. Extended time usually refers to three years for associate's degrees and six years for bachelor's degrees.
	<i>Research incentives</i>	Metrics related to the amount of federal research and development money brought into the university.
Progress Metrics	<i>Transfer rates</i>	Annual number and/or percentage of students who transfer from a two-year to a four-year institution.
	<i>Successful course completion</i>	A course for which a letter grade above a D- or pass has been entered.
	<i>Time and credit to degree</i>	Average length of time in years to earn a degree.
	<i>Student progression (or "credit accumulation")</i>	Students are weighted more for funding purposes after they pass specified credit hours thresholds.
	<i>Advancement through remedial and adult education</i>	Students are weighted more for funding purposes after they pass specified remedial and adult education courses.
	<i>Job placements</i>	Rate of job placements post-graduation.
Economic Development Metrics	<i>Earned research dollars</i>	Amount of outside grants for research brought into the institution.
	<i>Degrees linked to workforce development goals</i>	Annual number and/or percentage of high demand degrees, generally in science, technology, engineering, mathematics and healthcare.

National Governors Association *Complete to Compete* Metrics

The National Governors Association (NGA) *Complete to Compete* initiative has recommended metrics for higher education performance funding.⁴⁰ **Progress metrics** allow policymakers and the public to determine if the state and its public institutions are on track to meet future goals, while **outcome metrics** show how the state and institutions are currently performing against the completion goals. NGA simply recommends that these metrics be collected and published. A later NGA brief recommends that states "include performance measures (e.g., degrees awarded, degrees awarded to low-income and minority students) as part of the regular budgeting process for higher education. State funding for public colleges and universities should be based on measures of student program and success and not on just enrollment or what other colleges spend."⁴¹

For more information on the NGA *Complete to Compete* metrics and initiative, see:

<http://www.subnet.nga.org/ci/1011/>.

Progress Metrics

- Enrollment in Remediation Education
- Success in Remedial Education
- Success in First Year College Courses
- Credit Accumulation
- Retention Rates
- Course Completion

Outcome Metrics

- Degress Awarded
- Graduate Rates
- Transfer Rates
- Time and Credits to Degree

C. States' use of performance-based funding approaches

1. States that are using or considering using performance-based funding

Eleven states currently use performance funding for higher education with at least one performance-based criterion directly linked to funding (see *Table 2.15* below). Florida and Illinois have used performance funding in the past, but the performance pool is not currently funded. All of these states incentivize completion by awarding funding based on degrees or certificates awarded. The two most common progress metrics in use are credit/course completion and transfer rates between 2-year and 4-year programs. No state utilizes all of the NGA completion metrics, though movement toward higher education budgets based on course and degree completion align with more recent NGA recommendations. Note that most of the states using performance-based funding are doing so within a formula-based funding method, although a couple of states (Oklahoma and Washington) are applying performance criteria for non-formula funding methods.

⁴⁰ Reyna, Ryan. *Complete to Compete: Common College Completion Metrics*. NGA Center for Best Practices. June 2010.

⁴¹ Conklin, Kristin. "Follow the Money: Strategies for Using Finance to Leverage Change in Higher Education." *Complete to Compete Briefing Paper*.

Table 2.15. States that include performance-related criteria in higher education funding.

States Using Performance Criteria	Formula or Non-Formula State	Performance Criteria Elements/Description
Arizona	Formula*	Growth in degrees awarded, completed student credit hours, and external funding for research and public service.
Florida** (<i>for 2-year institutions only</i>)	Hybrid / Formula for 2-year institutions only	Degree completion; degree completion and employment of at-risk students
Hawai'i (<i>for 2-year institutions only</i>)	Hybrid / Formula for 2-year institutions only	Credit completion; degree/certificate completion; degree/certificate completion for Native Hawaiians; STEM degrees/certificates; number of at-risk students; transfers to 4-year institutions
Illinois** (<i>for 2-year institutions only</i>)	Hybrid / Formula for 2-year institutions only	Degree/certificate completion; degree/certificate completion for at-risk students; transfer to 4-year institutions; remedial & adult education advancement
Indiana	Formula	Successful completion of credit hours; overall degree change; low-income degree student change; on-time degree change; research incentive.
Kansas	Hybrid / Formula for 2-year institutions only	Criteria vary, as each institution creates its own performance agreement: increasing diversity; improving student achievement test scores; aligning the higher education system and the needs of the Kansas economy; increasing institutional quality; providing student services.
Louisiana	Formula	Course completion; STEM degrees; health degrees; research
New Mexico	Hybrid / Formula applied for new funding only plus 5% of base in FY2012	Credit completion; degrees/certificates completion; STEM degrees/certificates; health degrees/certificates; at-risk student degrees/certificates
Ohio	Formula	Credit completion; degree completion; at risk student completion; STEM degrees
Pennsylvania (<i>for 4-year institutions only</i>)	Formula	Course completion; degrees conferred; student persistence; quality metrics; high-risk students; self-developed criteria; diversity metrics.
Tennessee	Formula	<i>4-year & 2-year institutions:</i> student progression; degree/certificate completion; transfers out with 12 credit hours <i>4-year institutions only:</i> research & service; 6-year graduation rate <i>2-year institutions only:</i> dual enrollment; degrees/certificates; job placements; remedial & developmental success; workforce training <i>All –</i> quality measures
Texas	Formula	Degrees awarded with special weights for critical fields and at-risk students
Washington (<i>for 2-year institutions only</i>)	Non-Formula	Gains in basic skills; passing pre-college writing or math; earning 15 credits the first year; earning 30

States Using Performance Criteria	Formula or Non-Formula State	Performance Criteria Elements/Description
		credits; completing college-level math; finishing apprentice training; earning a degree or program certificate
<p>*Though Arizona does have a funding formula, it has dropped its use in recent years. Please see state narrative in Appendix A.</p> <p>**Is not currently funded.</p> <p>An alternate form of this table is shown in Appendix E</p>		

In addition to the states that have already implemented performance criteria in their funding models, a number of other states also have definite plans to switch to performance-based funding (see *Table 2.16*). The shift toward the use of performance-based funding is clear trend, and it is picking up speed. The concerns of taxpayers, parents, and policymakers over the time it takes for students to graduate, and grave concerns about the many students who never graduate, will likely ensure that this development is here to stay.

Table 2.16. States currently using and states considering performance-based funding.

States that currently use, or have a definite plan to switch to, performance-based funding (Note: states in bold currently use it)		States considering performance-based funding	
Arizona	Montana	California	New York
Arkansas	New Mexico	Connecticut	North Dakota
Colorado ¹	Ohio	Georgia	Oregon
Florida ²	Oklahoma	Idaho	South Dakota
Hawai'i ³	Pennsylvania ⁵	Kentucky	North Carolina
Illinois ⁴	South Carolina	Maine	Utah
Indiana	Tennessee	Massachusetts	Virginia
Kansas	Texas	Michigan	West Virginia
Louisiana	Washington ⁶	Mississippi	Wisconsin
Maryland		Nevada	Wyoming
<p>¹ CO will only switch to PBF if the state meets a target funding threshold.</p> <p>² FL: for 2-year institutions only; 4-year institution plan under development</p> <p>³ HI: for 2-year institutions only; 4-year institution plan has been developed but not yet implemented due to lack of funding</p> <p>⁴ IL: for 2-year institutions only; 4-year institution plan under development</p> <p>⁵ PA: for 4-year institutions only</p> <p>⁶ WA: for 2-year institutions only</p>			

2. Performance-based funding implementation and scale

Implementation and scale are critical questions for any new performance-based funding model. When state revenues declined in the recent recession, performance-based rewards structured as bonus funding were the first items to be eliminated from higher education allocations. Integration of performance-linked funding with the baseline funding allocation for higher education helps to protect performance-based funding pools while communicating a state's strong commitment to outcomes. In addition, the scale of performance-based funding must be large enough to make a difference – both in hearts and in actions. The funds allocated by performance-based measures should be large enough to incentivize behavior change and also communicate state commitment. For example, Tennessee and Ohio have changed all of their formula funding so that it is based on successfully completed credit hours, while other states use smaller performance pools (as shown in *Table 2.17*). It should be noted, though, that there is still value in *any* use of performance criteria, as it focuses stakeholder attention on the alignment of institutional outcomes with state goals. For example, Virginia and Louisiana both reward institutions meeting their performance-based goals by giving those institutions more autonomy over their student-derived revenues. In Louisiana, institutions meeting benchmarks are allowed to raise tuition.

Table 2.17. Selected states' use and implementation of performance-based criteria.

States Using Performance Criteria	Implementation/Scale of Performance-Based Funding	Performance Criteria Applied to Institutional Base Funding or as Bonus Funding?
Indiana	Performance pool is 5% of total state appropriation for higher education in 2011	Institutional base funding
Kansas	Increases to appropriation	Bonus funding
Louisiana	Performance pool will be 25% of institutional operating budgets when fully implemented	Institutional base funding
New Mexico	Currently being implemented – 5% of FY2012 base funding and applied to all appropriation increases.	Institutional base funding plus any new appropriations
Ohio (<i>university and regional campuses</i>)	100% of higher education formula funding is linked to performance criteria	Institutional base funding
Pennsylvania (<i>for 4-year institutions only</i>)	\$36 million of \$412 million ins 2012-2013	Institutional base funding
Tennessee	Phase-in over 4 years to 100% of higher education formula funding linked to performance criteria	Institutional base funding
Texas	Performance pool was \$80 million in 2009 of ~ \$147.2 million.	Bonus funding
Washington (<i>for 2-year institutions only</i>)	Fixed amount allocated \$1.8 million	Base funding

3. Performance-based funding results

Like any policy, time is required for results to be shown. Many of the current uses of performance-based funding are too new to evaluate; however, a few are old enough to see results.

- **Ohio:** Though recently Ohio has expanded its performance-based funding, the state started incentivizing graduation rates in 1998. Since then, Ohio has reported that the median time-to-degree for bachelor's degrees decreased from 4.7 years in fiscal year 1999 to 4.3 years in fiscal year 2003; the in-state bachelor's degree 4-year graduation rate increased from 34% in 1999 to 43% in 2006; and the number of at-risk students who received bachelor's degrees increased by 13% from 1999 to 2006.⁴²
- **Pennsylvania:** Between 2002 (when the performance pool was initially enacted) and 2008, the Pennsylvania System of Higher Education reported a nearly 10 percentage point increase in overall four-year graduation rates, including increases of 6 and 9 points for African American and Hispanic students and a jump in second-year persistence rates, especially for Hispanic students, who saw a 15-point persistence improvement.⁴²
- **Washington:** Between the 2006-07 baseline year and 2008-09, the first performance year, the colleges served 4% more students but increased student achievement by 19% with gains in all categories, including the largest increases in gaining college ready skills. In 2009-10, points again increased in all categories. Total achievement increased by 12 percent or 40,716 total points compared to student population growth of 1%. In 2010-11, completions increased by 17 percent over one year prior. College math points were the second highest increase (5 percent), a result, the system claims, of more attention being paid to both math and pre-college math.⁴³

These initial results are modest, and if the debate raging in k-12 education over testing is any guide, the question of whether performance funding has clear benefits will remain unsettled for the foreseeable future. But there is general agreement that performance in higher education has plateaued over the last two decades. Graduation rates have stagnated, while costs have risen dramatically. More importantly, citizens are paying less for public institutions through their taxes, and more through fees and tuition. This direct exposure to the costs of higher education has made them much more concerned about performance.

⁴² HCM Strategists. *Performance Funding in Indiana. An Analysis of Lessons from the Research and other State Models*. 2012. http://www.hcmstrategists.com/content/Indiana_PFReport2_8.2.11.pdf.

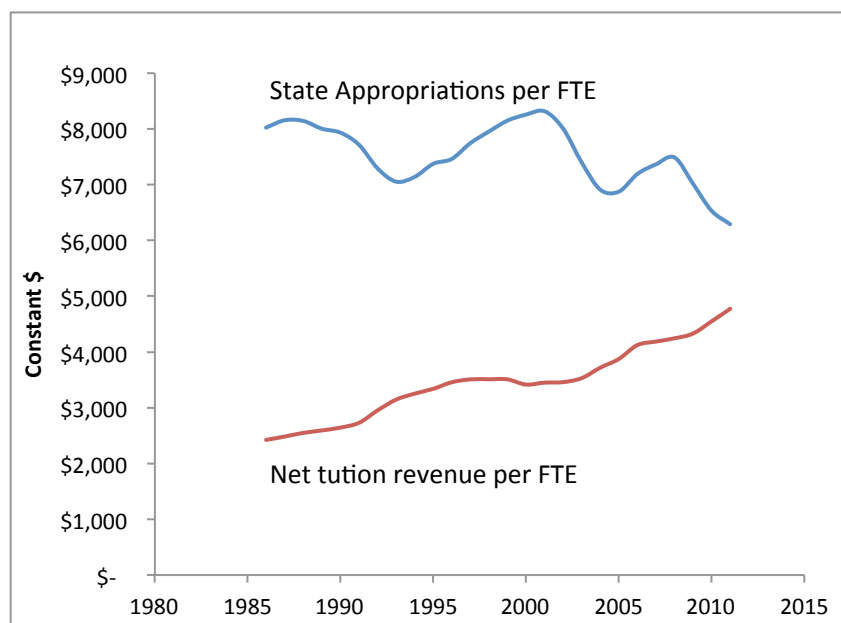
⁴³ Washington State Board for Community and Technical Colleges, "Student Achievement Initiative." http://www.sbctc.ctc.edu/college/e_studentachievement.aspx

V. States' Treatment of Student-Derived Revenues in Higher Education Funding

A. Background on use of student-derived revenues

Any discussion about higher education funding provided by state governments should include a discussion about student-derived revenues. As illustrated in *Figure 2.2*, around 1985, average tuition revenues per FTE enrolled student (~\$2,300) were only about one-quarter of the level of state appropriations per FTE enrolled student (~\$8,000). In the 25 years since then, student tuition revenues have grown while state appropriations have decreased. Tuition revenues are becoming a much more important portion of funding for higher education institutions as compared to state appropriations. Therefore, the demand for transparency may be larger than in the past due to the increased burden of tuition.

Figure 2.1. Average state appropriations per FTE enrolled student have fallen, while average tuition revenues per FTE enrolled student have risen. (Constant 2011 Dollars)



Source: State Higher Education Finance FY 2011

Historically, student-derived revenues have been controlled and retained at each institution, and this remains the dominant arrangement as seen in the sections below. Even in states like Nevada, which has a requirement for some student-derived funds to be budgeted through the legislature, higher education institutions have a lot of autonomy in how to spend their money. Other states, such as New York and Virginia, are rewarding their higher education institutions with increase autonomy in controlling their student-derived revenues if they meet performance-based benchmarks. States like Texas budget some student-derived revenues through the legislative process, but differential tuition policies allow high-demand institutions to charge higher tuition rates that they can retain and control.

B. States' budgeting practices for student-derived revenues

1. States that budget student-derived revenues through the legislative process

Nevada and twelve other states budget student-derived revenues by the legislature. In a recent national survey by the State Higher Education Executive Officers (SHEEO), twelve state higher education executive officers indicated that student-derived revenues must be appropriated by their state legislature (see *Table 2.18*). Of these twelve survey responses, only the California Community College system, the New York system, and the Texas system indicated that student-derived revenues are used to offset the general fund appropriation. However, further research beyond the SHEEO survey found that Alabama, Arkansas, Minnesota, Pennsylvania, Tennessee, Florida, South Carolina, and North Carolina subtract student-derived revenues from their formula's calculated need. The New York system is currently in the process of changing the way it handles and accounts for student-derived revenues (see the further discussion of New York's approach in *Appendix C*). Ten of the twelve listed states that appropriate student-derived revenues through the legislature require the revenues to be deposited into separate state tuition accounts, while Florida and Colorado states allow the actual funds to be retained on campus.

Table 2.18. States that appropriate student-derived revenues through the legislative process.

States where student-derived revenues appropriated through the legislature	Tuition is a direct offset of the state general fund revenue appropriation	Student-derived revenues are deposited into separate, institutional designated state tuition account
Arizona* California Colorado* Florida Hawaii Idaho Kansas New York North Carolina Tennessee Texas Virginia	California New York** Texas	Arizona* California Hawaii Idaho Kansas New York* North Carolina Tennessee Texas Virginia
<p><i>Source:</i> State Higher Education Executive Officers (SHEEO), <i>State Tuition, Fees, and Financial Assistance Policies for Public Colleges and Universities: 2010-11</i>. Survey data was supplemented with additional research by SRI for states that did not respond to the SHEEO survey.</p> <p>*Only a portion is appropriated. Please see state narratives in the appendices.</p> <p>** The New York system is currently in the process of changing the way it handles and accounts for student-derived revenues (please see <i>Section V.B.3</i>).</p> <p>Nevada is not listed in this table since they do not consider their budgeting of the student-derived revenues to be an appropriation action, and this table lists the results with given heading of the SHEEO survey.</p>		

State practices are more nuanced than a simple table indicates. Arizona has a hybrid system where each institution retains a portion of tuition, and another portion of the tuition revenues is deposited with the state treasurer and appropriated back to the universities. Each university ultimately receives back all tuition remitted to the state.⁴⁴ In Kansas, state universities' tuition is deposited into the state treasury and appropriated back without restrictions; at all other public Kansas universities, tuition is fully controlled at the campus level. The representative from Florida said although the legislature appropriates funds through the annual appropriations bill, funds remain with the institutions where collected.⁴⁵ In Wisconsin, the revenues are deposited into state accounts, but the higher education system has the authority to spend all revenues as collected.⁴⁶

Funding for Nevada institutions comes from a complex mix of state general funds, student-derived tuition and fees, indirect cost recovery from research grants, and other miscellaneous sources. The Board of Regents sets fees and out-of-state tuition, which are referred to as "student-derived revenues." Tuition and fee amounts are set independently of the Legislature and Governor. Student-derived revenues are budgeted through two budgets: a "state-supported budget" and a "self-supported budget". The state-supported budget is submitted by the governor to the legislature, who revises according to its will. More than 70% of the state-supported budgets' revenues come from state general funds and a significant portion of student-derived revenues.⁴⁷ The self-supported budgets are determined by each institution and are not approved by the legislature. The self-supported budgets' revenues include the balance of student fees, indirect cost recovery, investment/endowment income, and gifts. Legislative budget policy towards the state-supported budget has been to account for student-derived fees first and then to fill the balance with state general funds to reach the specified funding amount. Student fees and nonresident tuition remain on campuses; however, the total amount of fees collected offsets the amount required in state general fund appropriations to meet the desired level of support. It should be noted, however, that even if fees were accounted differently, it is unknown whether the legislature would automatically provide a higher level of state general fund support.

It is not uncommon for formulas to account for student tuition in the calculated need as Nevada's does. As mentioned above, Alabama, Arkansas, California, Florida, Minnesota, Pennsylvania, Tennessee, Florida, South Carolina, and North Carolina subtract student-derived revenues from their formula's calculated need. However, most of these states do not account formally for tuition and fee revenue in the state-support budget as Nevada does. Even if states required the student-derived revenues to be budgeted through the legislative process, most states allow institution to retain control over the physical funds, even if they are accounted for in the state-supported budget. This process is reviewed below, and many states overlap between the categories. In addition, some state overlap since just a portion of the student-derived revenues is appropriated.

⁴⁴ Arizona representative's answer to Question 13 on the SHEEO 2010-2011 State Tuition, Fees, and Financial Assistance Survey.

⁴⁵ Florida representative's answer to Question 13 on the SHEEO 2010-2011 State Tuition, Fees, and Financial Assistance Survey.

⁴⁶ Wisconsin representative's answer to Question 13 on the SHEEO 2010-2011 State Tuition, Fees, and Financial Assistance Survey.

⁴⁷ Finance Department, Office of the Chancellor. *NSHE state-supported budget fiscal year 2010-2011*.

2. States where institutions retain their student-derived revenues

Table 2.19 shows the forty-two states where individual institutions or campuses control and retain their student-derived revenues, according to a national survey by the State Higher Education Executive Officers. Of the states whose institutions control and retain tuition revenue, four state representatives said that the revenues are also required to be deposited into a state account and appropriated prior to expenditure.

Analysis of the national survey data suggests that the states that allow individual institutions to control and retain their student-derived revenues, and that do not appropriate that revenue through some direct means, also do not account for or recognize these revenues in the budget setting process.⁴⁸ However, it should be noted that accounting for student tuition and fee revenues might happen informally in state budget negotiations. This apparently dominant model of institutions retaining control and direction over their student-derived revenues may be attributed to the fact that tuition and fees have historically represented a very small percentage of the overall budget of public higher education institutions. However, the relatively recent change in this trend (as discussed above) may cause many states to review this practice in the future, as student-derived revenues move toward becoming the majority of public institutions' revenue streams.

Five states did not respond to the national survey, including Nevada (as well as Michigan, New Jersey, Rhode Island, and Washington). SRI researched these states independently and found that none of the non-responsive states, except for Nevada, budgets student-derived revenues through the legislature. In review of legislative documents, it did not appear that student-derived revenues were accounted for in reducing general fund appropriations for any of the non-responsive states except for Nevada. The one notable state SRI found was Michigan, whose legislature attempts to control the increase in student derived-revenues by rewarding those institutions that stay beneath a tuition increase percentage cap with more general fund appropriations.⁴⁹

⁴⁸ Davis Bell, Julie. *Getting What You Pay For: The nuts and bolts of the higher education legislative appropriations process*. Nov. 2008.

⁴⁹ Jen, Kyle. *Memo on University Funding Policy*. Wisconsin House Fiscal Agency. February 21, 2012.

Table 2.19. States that allow institutions to retain student-derived revenues.

States where tuition revenues are controlled and retained by individual institutions or campuses		Tuition revenues are deposited into separate, institutional-designated state tuition accounts from which all funds must be appropriated prior to expenditure
Alabama	Mississippi	Arizona
Alaska	Missouri	California
Arizona	Montana	Kansas
Arkansas	Nebraska	North Carolina
California	New Hampshire	
Colorado	New Jersey	
Connecticut	New Mexico	
Delaware	North Carolina	
Florida	North Dakota	
Georgia	Ohio	
Illinois	Oklahoma	
Indiana	Oregon	
Iowa	Pennsylvania	
Kansas	Rhode Island	
Kentucky	South Carolina	
Louisiana	Utah	
Maine	Vermont	
Maryland	Washington	
Massachusetts	West Virginia	
Michigan	Wisconsin	
Minnesota	Wyoming	

Source: State Higher Education Executive Officers (SHEEO), *State Tuition, Fees, and Financial Assistance Policies for Public Colleges and Universities: 2010-11*. Survey data was supplemented with additional research by SRI for states that did not respond to the SHEEO survey.

Appendices

Appendix A: Narratives of States That Use a Formula for Higher Education Funding

1. Alabama⁵⁰

State funds are budgeted for Alabama higher education through both formula and non-formula mechanisms. Senior institutions and two-year institutions use different sets of formulas. In Alabama, the funding formula is only a recommendation made by the Alabama Commission on Higher Education. The Governor and the Legislature are under no legal requirement to use it when they make the appropriations to the colleges and universities and in fact do not use it when developing the actual allocations. The ACHE Standard calculation as the model for how funds are actually distributed in Alabama. The actual allocation of funds to the colleges and universities is usually based more on a base plus/minus model. Each institution starts with what they received the previous year and the percent increase or decrease made is generally the same to all institutions with some small variances.⁵¹

Senior Institutions

For senior institutions, Alabama's formula calculation for instruction and related operating expenses is a function of enrolled student credit hours. The three-year average of actual on-campus weighted semester credit hours are multiplied by an "academic program multiplier," which is predicated on the estimated National Association of State Universities and Land-Grant Colleges (NASUGLC) regional General Studies average salary for doctoral and regional institutions 2 years prior to the formula year, adjusted for inflation. The multiplier is determined from regional faculty salaries adjusted by an estimated departmental expense rate (20% in 2012-2013). The multiplier uses an assumed faculty productivity factor of 630 student credit hours (SCH) annually for doctoral institutions and 585 SCH for non-doctoral institutions. These productivity factors imply a General Studies faculty to student ratio of 1:26 for doctoral institutions and 1:24 for regional institutions. Remedial credit hours are multiplied by 115% before being multiplied by the academic program multiplier.

- Academic Support is budgeted at 5% of the estimated cost of Instruction and Operating Expenses.
- Research is budgeted at 2% of the sum of estimated cost of Instruction, Operating Expenses, and Academic Support.
- Sponsored Research is calculated to be 5% of qualifying research.
- Public Service is budgeted at 2% of the sum of the estimated cost of Instruction and Operating Expenses and Academic Support.
- Library Support is based on actual unweighted semester hours, less military science, times a cost factor that depends on degree level (undergraduate, master, doctoral, law).
- General Administration & Student Services support is based on an average 3-year headcount enrollment, with increase per head support for institutions with less than 4,000 students. This part of the calculation uses a three-year average unduplicated on-campus headcount enrollment as reported by the institutions.

⁵⁰ Alabama Commission on Higher Education. *Consolidated Budget Recommendation for Fiscal Year 2012-2013* Section C. <http://www.ache.alabama.gov/CBR2012/Index.pdf>.

⁵¹ Margaret Gunter, Alabama Commission on Higher Education (personal communication July 20, 2012.)

- Physical Plant and Custodial Services is funded by gross square feet multiplied by a cost factor.
- General Institutional Support is based on 14% of the sum of Instruction, Academic Support, Research, Public service, Library Support, General Institutional Support and Student Services, and Physical Plant and Custodial services.
- The Utilities O&M Allowance is based on consumption rates for heating, electricity, and other utilities and gross square educational and general floor area.

From this sum for each institution, a tuition adjustment is calculated for each institution, as follows: a weighted average credit charge is calculated using tuition and required fee level and three-year average unweighted credit hours (excluding Military Science); ninety percent (90%) of that rate multiplied by the three-year average of unweighted credit hours is the tuition deduction for all institutions. For the 2012-2013 formula, the weighted per-credit-hour tuition deduction is \$250.40.⁵²

Like many states, Alabama also funds its higher education institutions by appropriation not calculated by their funding formula. For example, the following off-formula allocations are calculated by the indicated method:

- Agricultural Experimentation and Extension: Auburn University – prior year ACHE Standard calculation times 3%.
- Organized Research: 8% of Academic Program Research Component for doctoral institutions and 4% for non-doctoral institutions.
- Public Service: 8% of Academic Program Public Service Component.
- Facilities Renewal and Replacement: based on volume of physical space, its construction and age, use, and nationally estimated engineering rates for renovation and replacement.

Community Colleges and Technical Colleges

Two-year colleges are funded per FTE student. For community colleges, the three-year average fall FTE enrollment is multiplied by the average funding rate per FTE of the Southern Regional Education Board. Technical College funding levels are calculated by using a 15:1 student-to-faculty ratio and average fall FTE enrollment and multiplying the resulting FTE faculty positions by the average 9-month salary for technical college faculty. A tuition adjustment is then applied to account for student-derived revenues.

Alabama does not employ performance-based funding or specific formula funding mechanisms for economic development. However, Alabama's *State 5-year Strategic Plan for Higher Education*, published in 2009, includes a priority for establishing a comprehensive workforce development plan. Goals under the priority include aligning higher education programs with labor market information.⁵³

⁵² Alabama Commission on Higher Education. *Consolidated Budget Recommendation for Fiscal Year 2012-2013* page C-9

⁵³ Alabama Commission on Higher Education. *Forging Strategic Alliances: 2009-2014: State Plan for Alabama Higher Education*. [http://www.highered.alabama.gov/spac](http://www.highered.alabama.gov/spac;);

Table A.1. Higher education funding formulas in Alabama.

Alabama – Formula for Senior Institutions	
Instructional Support	The three-year average of actual on-campus weighted semester credit hours are multiplied by an academic program multiplier.
Remedial Education	Receive 15% more Instructional Support for each remedial student credit hour in the Instructional Support line
Operations and Maintenance	Based on consumption rates for heating, electricity, and other utilities and gross square educational and general floor area
Academic Support	5% of instructional support
Student Services	Based on approved headcount multiplied by a size dependent multiplier: <i>For institutions with total approved campus headcount enrollment of less than 4,000:</i> <ul style="list-style-type: none"> 1 to 2,000 Headcount: \$1,457.22 2,001 to 2,999 Headcount: \$766.96 3,000 to 3,999 Headcount: \$344.90 <i>For institutions with total approved headcount enrollment of 4,000 or greater:</i> <ul style="list-style-type: none"> First 4,000 Headcount: \$601.03 4,001 to 8,000 Headcount: \$450.11 Over 8,000 Headcount \$404.86
Institutional Support	14% of sum of Instructional Support, Research, Sponsored Research, Public Service, Library Support, Student Services, and Physical Plant & Custodial Services
Public Service	2% of sum of estimated cost of Instruction, Operating Expenses, and Academic Support
Scholarships	-
Research	2% of combined amounts for Instruction and Academic Support plus 5% of 2007-2008 Sponsored Research
Performance Criteria	None
Workforce Development	-
Student-Derived Revenues	Tuition and fees are subtracted from the formula calculation: For the 2011-2012 formula, the weighted per-credit-hour tuition deduction is \$227.45.

Alabama – Formula for Two-Year Colleges	
State Support	Three-year average fall FTE enrollment is multiplied by the average funding rate per FTE of the Southern Regional Education Board

Alabama – Formula for Technical Colleges	
State Support	15:1 student-to-faculty ratio and average fall FTE enrollment and multiplying the resulting FTE faculty positions by the average 9-month salary for technical college faculty
Student-Derived Revenues	Tuition is subtracted from the funding formula calculations For the 2012-2013 formula, the weighted per-credit-hour tuition deduction is \$250.40.

2. Arizona⁵⁴

Arizona's higher education funding is based on the so-called "22 to 1 Formula," which stipulates adding or subtracting one faculty position for every increase or decrease of 22 FTE students; additionally, 0.75 staff positions are added or subtracted for every 1 faculty position. "FTE students" is defined differently across divisions: in the undergraduate lower division courses one FTE = 15 semester credit hours (SCH) attempted; in undergraduate upper division courses one FTE = 12 SCH attempted; and in graduate courses one FTE = 10 SCH attempted. This formula is used to cover enrollment growth and funding for related expenses including salaries, employee-related expenses, and operations. The total number of FTE students is determined by a three year weighted rolling average. This is calculated by using 25 percent of the past year's actual fall enrollment, 50 percent of the present year's fall enrollment and 25 percent of the projected next fall enrollment.⁵⁵ However, the 22-to-1 formula has not been used in the past 5 years, since the legislature has been drastically cutting higher education funding in Arizona. Recently, appropriation has been made on a base and base adjustment basis.^{56,57}

Several non-formula items, including academic support, student services, research, institutional support, public service, general institutional support, scholarships funds, and auxiliary enterprises are all allocated by the individual institution and submitted to the board for approval.⁵⁸

Though the "22 to 1" formula is still law in Arizona, since 2011 Arizona has been transitioning performance based funding. The FY2013 enacted budget provides a \$5 million "claw-back" of base funding apportioned by each university's share of the FY 2012 GF budget, which is then to be appropriated to Arizona Board of Regents for redistribution in accordance with a new performance funding model. The Arizona Board of Regents adopted a performance funding consist of three components:

1. Increases in Number of Degrees Awarded weighted by level and cost, in accordance with a 3x3 matrix
2. Increases in Number of Completed Student Credit Hours again, weighted by level and cost, in a 3x3 matrix
3. Increases in External Research and Public Service Funding

⁵⁴ Arizona Board of Regents. (2011). *Getting AHEAD Committee Provides Recommendations for Modernizing Arizona's Higher Education Funding System*.

<https://azregents.asu.edu/palac/newsreleases/Getting%20AHEAD%20Committee%20Provides%20Recommendations%20for%20Modernizing%20Arizona%27s%20Higher%20Education%20Funding.pdf>.

Arizona Board of Regents. *Funding Enrollment Changes or the 22 to 1 Formula*.

<https://azregents.asu.edu/Documents/FUNDING%20ENROLLMENT%20CHANGES.pdf>.

Arizona Board of Regents. *Outcome-based (Expenditures) Funding Formula*.

https://azregents.asu.edu/enterpriseinitiativesfinancestrategicplanning/Strategic%20Planning%20Committee%20Documents/Rich%20Stanley%20Model_Outcomes%20based%20funding%20formula%20%28used%20in%204-08%20meeting%29.pdf.

MGT of America. (2011) *Funding Model for Arizona Higher Education, Final Report*.

http://gettingaheadaz.org/educators/Funding_Model_AZ_Higher_Education_Report_7_21_2011.pdf.

⁵⁵ Arizona Board of Regents. *Funding Enrollment Changes or the 22 to 1 Formula*.

<https://azregents.asu.edu/Documents/FUNDING%20ENROLLMENT%20CHANGES.pdf>.

⁵⁶ Christine Thompson, Arizona Board of Regents. Personal communication. July 24, 2012.

⁵⁷ Board of Regents. *Performance Funding*. August 2011.

⁵⁸ Arizona Board of Regents. *Regents Approve Performance Funding Model; Allocate State Appropriated Monies for Parity and Performance Funding in FY13*. Press Release. June 14, 2012.

The raw data informing these components are in the form of a 3-year moving average. The model will allocate monies approximately based on mission, based on the following:

- 50% in support of the growth of degrees awarded
- 25% in support of the growth of completed student credit hours
- 25% in support of the growth of external funding for research and public service

Carnegie classifications are used to differentiate between Arizona State University and the University of Arizona, as very high research versus high research. Arizona State University and the University of Arizona both use an even weighting of 33.3% each for degrees, student credit hours (SCHs) and research. Northern Arizona University will use a weighting of 42.5%, 42.5% and 15%, respectively, for degrees, SCHs and research. The model allows policy makers, to periodically adjust various factors or “dials” to emphasize or direct the state’s investment in different directions based upon the economic needs of the state. Though the Board of Regents have approved a major structure of the performance funding model, they are still working their final model, which will most likely include weights for STEM degrees.

The current formulas for community colleges include operating aid, equalization aid, and equipment/capital outlay. The operating aid is a function of FTE students. Like the universities funding, the community college funding formulas are in the process of being revised.⁵⁹

3. Arkansas⁶⁰

Arkansas is implementing a performance based funding model for universities and community colleges beginning in fiscal year (FY) 2013-14. Funding for this mechanism will be phased in over a five-year period: for 2013-14, 5% of funding will be performance-based, with the percentage increasing every year until 2017-18, when performance-based funding will reach its target of 25% of total funding. The performance-based model is required by statute to consider at the least the following metrics: course completion, degree completion, critical needs shortage areas, minority students, economically disadvantaged students, and non-traditional students.

Universities

Arkansas’ non-performance based funding component (also known as need-based) uses six student credit hour (SCH) functions, one square-footage function based on a space prediction model, and special-mission function. Teaching salary support is calculated using a matrix containing four discipline categories and three instructional levels that transform student credit hours into FTE faculty members. The number of faculty at each instructional level is then multiplied by an average Southern Regional Education Board faculty salary for a university at that level. Other instructional costs are then calculated as 45% of the institution’s teaching salaries; library costs as 11% of the sum of the institution’s teaching salaries and other instructional costs; general institutional support as 54% of the sum of the institution’s teaching salaries and other instructional costs; research as the sum of 5% of undergraduate 25% of graduate and 50% of doctoral teaching salaries; and public service as 3% of the institution’s teaching

⁵⁹ MGT of America, Inc. *Funding Model for Arizona Higher Education: Final Report* June 30, 2011.

⁶⁰ Arkansas code § 6-61-228 and § 6-61-229.

Arkansas Senate Bill 766. (2011). <http://www.arkleg.state.ar.us/assembly/2011/2011R/Bills/SB766.pdf>

Association of Governing Boards. (2011). *Arkansas Senate Bill 766*. <http://agb.org/ingram/policy/arkansas-senate-bill-766>.

salaries. Facilities maintenance and operations funding is based on square footage, multiplied by a funding factor determined every biennium by the Arkansas Higher Education Coordinating Board based on institutional spending in recent years.

Facilities maintenance and operations funding of the university is based upon the university's needed square footage as determined by the Five-Factor Academic Space Prediction Model that considers the discipline and level of the student semester credit hours of each university. For each year of a biennium, the Arkansas Higher Education Coordinating Board staff determines a funding rate per square foot based upon the most recent cost experiences of the universities. Excess or less square footage above the space prediction model's established need shall be funded at a rate determined by the Arkansas Higher Education Coordinating Board staff.

Institutions may also receive funding for the traditional minority mission and/or the land grant mission. Institutions with a traditional minority mission receive an additional 15% for SCH/FTE-based portions of the formula. Land grant institutions receive an additional 10% of teaching salaries.

Additional "diseconomy of scale" funding is provided for universities with FTEs under 3,500, with the method of calculation determined by Arkansas Higher Education Coordinating Board in consultation with the presidents and chancellors of the universities.

Appropriation needs for a university are determined by subtracting from the total expenditure needs the tuition and fee revenues.⁶¹ The Arkansas funding formula is used to request funds from the legislature, but the legislature has not fully funded the university formula in recent years.⁶² In addition, the funding formula is used to only allocate funds to the university and no used to prescribe the allocation of those funds within the universities.⁶³

*Community College*⁶⁴

The funding formula determines the funding needs of two-year colleges in four student-semester-credit-hour or full-time-equivalent, student-based expenditure functions, which provide support for teaching salaries, academic support, student services, and institutional support; one square-footage-based expenditure function; and one contact hour expenditure function for workforce education programs.

The student-based expenditure functions transform student semester credit hours into FTE faculty members. The number of FTE faculty members is multiplied by the Southern Regional Education Board average salary for two-year colleges with no academic rank, adjusted for the use of part-time faculty determined by the Coordinating Board. Funding needs for the academic support functions shall be equal to sixty percent (60%) of adjusted teaching salaries plus \$35,000 for a staff salary in public service. student services is calculated based on a variable rate per student using the mean of full-time-equivalent enrollment and headcount enrollment and an economy-of-scale component that will provide progressively less funding per student over established enrollment levels. Institutional support funding shall be as follows based on the college's full-time-equivalent student enrollment. For one thousand (1,000) or fewer students enrolled, an amount equal to twenty-one percent (21%) of the total teaching

⁶¹ Arkansas code § 6-61-228 section (m) (2) (a). June 12, 2012.

⁶² Dan Howard. ASU Chancellor. Monthly Report, March 2, 2011 <http://www.astate.edu/a/chancellor/first-friday/archive.dot?id=b277adf4-5c94-48b4-9e92-cf9633a0b9ef>

⁶³ Arkansas code § 6-61-228 section (n) (1) and (2). June 12, 2012.

⁶⁴ Arkansas code § 6-61-229 June 12, 2012.

salaries, academic support, student services, and facilities maintenance and operations. For one thousand one (1,001) to three thousand (3,000) students enrolled, an amount equal to eighteen percent (18%) of the total of the teaching salaries, academic support, student services, and facilities maintenance and operations. For more than three thousand (3,000) students enrolled, an amount equal to fifteen percent (15%) of the total teaching salaries, academic support, student services, and facilities maintenance and operations.

Operations and Maintenance is funded in the same manner as universities. Funding for workforce education is based on contact hours and shall be calculated by using an established rate for the first ten thousand (10,000) contact hours, a lesser rate for the next ten thousand (10,000), and a lesser rate for all noncredit contact hours in excess of twenty thousand (20,000).

The calculated tuition and fee income are subtracted from total expenditure needs of the college to calculate the appropriation needs of each college. The Coordinating Board establishes biennially a tuition rate per credit hour for two-year colleges with revenue derived from a local tax, including, but not limited to, a sales tax or an ad valorem tax, and a higher per credit hour tuition rate for those colleges without revenue derived from a local tax.

Table A.2. Higher education funding formulas in Arkansas.

Arkansas – Formula for Universities	
Instructional Support	Annualized student semester credit hours are transformed into FTE faculty members multiplied by level and cost matrices and multiplied by an average Southern Regional Education Board faculty salary for a university at that level to calculate teaching salary support. 45% of the institution's teaching salaries are added instructional support.
Remedial Education	-
Operations and Maintenance	Five-factor academic space prediction model that considers the discipline and level of the student semester credit hours of each university
Academic Support	Library costs: 11% of the sum of the institution's teaching salaries and other instructional costs;
Student Services	-
Institutional Support	54% of the sum of the institution's teaching salaries and other instructional costs.
Public Service	3% of the institution's teaching salaries
Scholarships	-
Research	Sum of 5% of undergraduate 25% of graduate and 50% of doctoral teaching salaries
Performance Criteria	Being implemented
Workforce Development	-
Student-Derived Revenues	Subtracted from formula calculation

Arkansas – Formula for Community Colleges	
Instructional Support	Annualized student semester credit hours are transformed into FTE faculty members by an average Southern Regional Education Board salary. 45% of the institution's teaching salaries are added instructional support.
Remedial Education	-

Operations and Maintenance	Five-factor academic space prediction model that considers the discipline and level of the student semester credit hours
Academic Support	60% of adjusted teaching salaries \$35,000 for a staff salary in public service
Student Services	Calculated based on a variable rate per student using the mean of full-time-equivalent enrollment and headcount enrollment
Institutional Support	Based on the college's full-time-equivalent student enrollment
Public Service	Included in Academic Support
Scholarships	-
Research	-
Performance Criteria	Being implemented
Workforce Development	Based on contact hours and shall be calculated by using an established rate for the first ten thousand (10,000) contact hours, a lesser rate for the next ten thousand (10,000), and a lesser rate for all noncredit contact hours in excess of twenty thousand (20,000)
Student-Derived Revenues	Subtracted from formula calculation

4. Connecticut⁶⁵

Connecticut higher education funding uses two statutory formulas, both designed to set funding levels for financial aid. The Connecticut Independent College Student Grant Program (CICSG) provides funds for students attending independent schools in the state, and the Connecticut Aid for Public College Student Grant Program (CAPCS), for students attending public colleges. CAPCS is designed to match tuition funds set aside by an institution (at least 15% of all tuition revenue, per the Board of Governors' tuition policy) but is not been fully funded in recent years.

5. Georgia⁶⁶

Georgia has used a formula-based funding system since 1963, generally based on enrollment growth. The 2013 budget divides a \$3.7 billion allocation as follows:

- Direct Instruction (based on enrollment) – 35.5%
- Research – 8.7%
- Academic and Institutional Support – 20.2%
- Fringe Benefits – 22.5%
- Physical Plant and Utilities – 10.3%
- Public Service/Continuing Education – 1.1%

⁶⁵ Connecticut House Bill No. 6651, Public Act No. 11-48 (2011). <http://www.cga.ct.gov/2011/ACT/PA/2011PA-00048-R00HB-06651-PA.htm>.

State of Connecticut, Department of Higher Education. (2011). *Connecticut Public Higher Education 2011 System Trends*. Hartford, CT.

Thomas, Jacqueline R. (December 16, 2010). Lawmakers propose tying higher education funding to performance. *CTMirror*. Retrieved from <http://ctmirror.org/story/8735/lawmakers-recommend-restructuring-how-public-colleges-are-funded-state>.

⁶⁶ *University System of Georgia Funding Formula Overview*. November 2011. http://www.usg.edu/fiscal_affairs/documents/Consolidated_Formula_Presentation_-_November_Board_-_Final.pdf.

- Technology – 1.7%

Major Repairs and Rehabilitation are funded outside the normal appropriations by General Obligation Bonds.

The Direct Instruction component multiplies enrolled semester credit hours from two years before. The hours are categorized into discipline and level. These hours are multiplied by a price per credit hour based on the discipline and level. The research component is based on Graduate Academic Salaries. Academic support is calculated at 18.9% of the sum of Instruction support and research support and Institutional Support is calculated at 26.9% of the sum. Physical Plant and Utilities are funded based on square feet of instructional space.

The calculated need is not fully funded by state money. Student-derived revenues are expected to pay for some of the calculated need; however, there is not a formula subtraction piece of the formula. Initially, the state funded 75% of the formula; however that has decreased over the years.

The Higher Education Funding Commission is now creating new performance-based formula, and is expected to make its recommendations in December of 2012. Performance funding is expected to be used for the FY2015 budget.

Table A.3. Higher education funding formulas in Georgia.

Georgia – Formula for Universities	
Instructional Support	Enrolled credit hours are multiplied by a price per credit hour based on the discipline and level.
Remedial Education	-
Operations and Maintenance	Square feet of instructional space.
Academic Support	18.9% of the sum of Instruction support and Research support.
Student Services	-
Institutional Support	26.9% of the sum of Instruction support and Research support.
Public Service	1% of the sum of Instruction support and Research support.
Scholarships	-
Research	Based on Graduate Academic Salaries.
Performance Criteria	Investigating.
Workforce Development	-
Student-Derived Revenues	Considered, but not formally accounted for.

6. Louisiana^{67,68}

Louisiana funds all its institutions of higher education using a formula with two components: cost and performance. The cost component governs core, general, and operations funding and comprises 75% of total funding. This covers instruction, faculty and student academic support, and administration. The cost level is calculated by multiplying completed student credit hours by a discipline and level cost matrix. For each institution, the resulting credit hour cost matrix is multiplied by a rate based on their Southern Regional Board category's average faculty salary discounted for Liberal Arts discipline (12% for 4-year institutions and 6% for 2-year institutions). Thirty percent is added on for academic support services. Operations and Maintenance is calculated at \$6.75 per gross square foot with a modest premium or penalty based on ratio of academic and support square foot to FTE enrollment. The state only supports a fraction of the cost component. The percent funded is the same for each institution.

The *performance* component uses metrics aligned with the Louisiana Granting Resources and Autonomy for Diplomas Act (GRAD) (whose four objectives are student success, articulation and transfer, workforce and economic development, and institutional efficiency and accountability). These metrics include course completion, research, STEM completers, and health completers, and make up the remaining 25% of funding. The weights are listed in table A.5.

Cost calculations are based on end of course counts (completion), with the exception of technical colleges, which use day 14 enrollment counts. Southern Regional Education Board peer faculty costs by discipline are used to calculate funding per student credit hour. An academic support factor is added after student credit hour funding is calculated. An additional \$6.75 per net academic and support square foot is then added for physical plant costs.

Table A.4. Higher education funding formulas in Louisiana.

Louisiana – Formula for community colleges and universities	
Instructional Support	Completed credit hours multiplied by level and discipline cost matrix and SREB average faculty salary.
Remedial Education	-
Operations and Maintenance	\$6.75 per gross square foot with a modest premium or penalty based on ratio of academic and support square foot to FTE enrollment.
Academic Support	30% of instructional support.
Student Services	-
Institutional Support	-
Public Service	-
Scholarships	-
Research	In performance funding.
Performance Criteria	• Number of Graduates: 29.0%

⁶⁷ Louisiana Board of Regents. Regents Adopt Revamped Funding Formula. March 2011.

<http://regents.louisiana.gov/assets/media/2011/Regentsadoptrevampedformula0311FINAL.pdf>

⁶⁸ Louisiana Board of Regents. *Learn More...Earn More...Be More. The Formula for Enriching Louisiana.*

Presentation to Louisiana Association of Institutional Researchers. August 4, 2010; FY10-11 Cost Component Excel Sheet. FY 10-11 (Two and Four Year Institutions) Excel Sheet

<http://regents.louisiana.gov/index.cfm?md=pagebuilder&tmp=home&pid=81>

	<ul style="list-style-type: none"> • Number of Graduates with an Undergraduate Degree - 25 or older: 9.0% • Number of Graduates By Race – Minority: 9.0% • Number of Graduates - Pell Recipients: 8.5% • Transfer to/from Institution with Associate Degree: 2.0% • Transfer to/from Institution with more than or equal to 30 Hours: 2.0% • Number of Graduates in STEM/Health Workforce: 29.5% • Research and Development: 9.0% • Workforce Training: 2.0%
Workforce Development	-
Student-Derived Revenues	-

7. **Massachusetts**^{69,70}

Massachusetts in theory funds higher education using a formula based on FTE for Instruction, Academic Support, Student Services, Research, and Institutional Support, and based on square footage for some physical plant factors. The budget should then be allocated as follows:

- Budget formula requirement – by institution.
- Total local revenue – by institution; includes distance & continuing education tuition and all fee revenue.
- State support – by institution; based on current year General Appropriation Act.
- State-supported fringe benefits – by institution.

However, this formula has only been implemented during one year since its creation. Since then the appropriation has based on legislative priorities. The Governor has called for the board of trustees of the University of Massachusetts in consultation with the secretary and the board of higher education to create a performance measurement system, and for the commissioner of higher education in consultation with college presidents to develop a funding formula for community colleges that is based in part on performance.

8. **Minnesota**^{71,72}

Minnesota uses a funding formula with the following components: Instruction and Academic Support, Library, Research and Public Service, and Facilities. For all purposes where student enrollment is used for budgeting purposes, student enrollment shall be measured in full-year equivalents (FYE) and shall include only enrollments in courses that award credit or otherwise satisfy any of the requirements of an academic or vocational program.

⁶⁹ Stephen Lenhardt, Massachusetts Board of Higher Education, Personal Communication, May 9, 2012.

⁷⁰ "House Ways and Means Committee Releases Budget for Fiscal 2013" Massachusetts Teachers Association.
http://www.massteacher.org/news/archive/2012/hwm_budget_summary.aspx

⁷¹ Minnesota Statue 135A.01

⁷² Educationminnesota.org. (2007). *General Description of Allocation Framework Components*.
<http://www.educationminnesota.org/en/events/polconference/~media/Files/Sections/events/polconference/2011handouts/MNSCU%20allocation%20framework.ashx>

Instruction and academic support component of the formula is based on actual instruction and academic support expenditures for each program at each institution at the level of instruction (lower division, upper division, and graduate). For each program, a “band” is calculated with boundaries at 10% above and 10% below the system average for each instructional program. If a program’s cost per full-year equivalent (FYE) student is within the band, it will be allocated the actual amount of funding per FYE; if it is above the upper 10% band, funds will be reduced to the level of the upper band; and if it is below the band, funds will be increased to the level of the lower band. The number of FYE in the program multiplied by the resulting amount per FYE equals the total program allocation; an institution’s total instructional and academic support allocation is the sum of all its program allocations. To improve the stability of funding, since 2006 a three-year rolling average has been used for this component. Minnesota’s stated goal for this unique approach is to maintain enrollment support while controlling program costs.

The administrative support component of the funding formula supports Institutional Support and Student Services. A core cost and a variable cost is estimated using the administrative expenditures and enrollments of the national data set of colleges and universities in similar Carnegie classifications. The core and variable costs are calculated separately for colleges and universities. The library component equals 3.5% of total operating costs for two-year institutions and 6% for four-year institutions. Research and Public Service combined are allocated 1.17% for two-year institutions and 2.62% for four-year institutions, based on peer comparisons. Facilities functions are budgeted at \$1.80 per square foot for maintenance and operations and \$1.50 per square foot for repair and replacement. These prices are based on square footage, three-year rolling average for utilities, recognized leases, student duplicated headcount. It also recognizes multi-campus, residential impact, and steam plant. Repair and replacement is allocated on square footage. Utilities funding is calculated as the average expenditure over the previous three years, and other funding may be provided for leases, or for multiple campus or residential living factors. Additionally, a tuition offset is calculated and applied to all components except instruction.

The resulting funding calculation is not funded fully by the legislature. According to Minnesota Statute 135A.01, Funding Policy, “It is the policy of the legislature to provide stable funding for public postsecondary institutions and that the state and students share the cost of public postsecondary education. The legislature intends to provide at least 67 percent of the combined revenue from tuition, the university fee at the University of Minnesota, and state general fund appropriations to public postsecondary institutions.”

Table A.5. Higher education funding formula in Minnesota.

Minnesota – Formula for community colleges and universities	
Instructional Support	Actual program cost per full-year equivalent adjusted for average system costs.
Remedial Education	-
Operations and Maintenance	Square footage, three-year rolling average for utilities, recognized leases, student duplicated headcount. It also recognizes multi-campus, residential impact, and steam plant. Repair and replacement is allocated on square footage.
Academic Support	Included in Instructional Support. Library component equals 3.5% of total operating costs for two-year institutions and 6% for four-year institutions.

Student Services	A core cost and a variable cost is estimated using the administrative expenditures and enrollments of the national data set of colleges and universities in similar Carnegie classifications. The core and variable costs are calculated separately for colleges and universities.
Institutional Support	
Scholarships	-
Public Service	Research and Public Service combined are allocated 1.17% for two-year institutions and 2.62% for four-year institutions, based on peer comparisons.
Research	
Performance Criteria	-
Workforce Development	-
Student-Derived Revenues	Included in the state revenue calculation for funding the formula calculation.

9. Mississippi⁷³

Senior institutions use a funding formula comprised of four elements: Instruction and Administration; Predicted Space; Capital Renewal; and Small School Supplement. The sum of these is referred to as the formulated need.

The instruction and administration component of the formula multiplies a 3-year average of student credit hours by a discipline and level of instruction cost matrix. The cost matrix is based on cost study by the Texas Higher Education Coordinating Board. The resulting weighted student credit hours are multiplied by dollar value of a university's weighted student credit hours using the Southern Regional Education Board's (SREB) average appropriation per full-time equivalent student based on the level of the university per one of two IHL designations of regional universities and research universities. The average appropriation is adjusted down to account for its inclusion of O&M funding. The sum is the requested allocation for instruction and administration.

The O&M portion of the formula uses a predicted space formula that calculates the space a university should need rather than on the amount of space actually maintained. The predicted space is based on the number, program, and level of students; the number of faculty, staff, and library holdings; and research and educational and general expenditures. The capital renewal component addresses deferred maintenance issues on the campuses and is based on the predicted space formula. The Small School Supplement component of the formula equals \$750,000 if a university's three-year average of full-time equivalent students is 5,000 or less and its most current appropriation per full-time equivalent student must be less than 110% of the SREB average.

⁷³ Ccweek.com. (2012). *State Strategies Vary Amid Budget Squeeze*.

<http://www.ccweek.com/news/templates/template.aspx?articleid=2939&zoneid=7>.

Crisp, Elizabeth. (May 4, 2011). State College Board wants funding formula revisited. *www.cdspatch.com*.

Retrieved from <https://www.cdspatch.com/news/article.asp?aid=11136>.

Joint Legislative Committee on Performance, Evaluation and Expenditure Review (PEER). (2008). *An Analysis of the Allocation of FY 2009 State Support Funds to Mississippi's Institutions of Higher Learning*.

<http://www.peer.state.ms.us/reports/rpt516.pdf>.

SREB. (2011). *Legislative Report - 2011 Final Report*. http://publications.sreb.org/2011/11S09_Final_Leg_Rep.pdf.

State Board for Community and Junior Colleges. (2007). *2007 Mississippi Legislative Session*.

<http://www.sbcjc.cc.ms.us/pdfs/pb/LegBook2007.pdf>.

The sum of the formula components determines the amount required for each university, but as available funds are often less than that required for institutions' recommended allocations, funds are distributed on a pro-rata basis according to each university's percentage of the total formulated need.

Two-year institutions are funded according to the "Mid-level Formula," which fixes community college funding mid-way between that at universities and at K-12 schools, calculated as the average of per-student funding.

Mississippi is currently working on revising the way it funds higher education. The new formula will go beyond funding for enrollment to include funding based on how well institutions are meeting state productivity goals. The council must present its recommendations to the Legislature and governor by November 2012.⁷⁴

Table A.6. Higher education funding formulas in Mississippi.

Mississippi – Formula for universities	
Instructional Support	3-year average of student credit hours by a discipline and level of instruction cost matrix is multiplied by adjusted SREB average appropriation.
Remedial Education	-
Operations and Maintenance	Predicted space formula based on the number, program, and level of students; the number of faculty, staff, and library holdings; and research and educational and general expenditures.
Academic Support	-
Student Services	-
Institutional Support	-
Scholarships	-
Public Service	-
Research	-
Performance Criteria	-
Workforce Development	-
Student-Derived Revenues	-

10. Ohio

Ohio uses a funding formula called the State Share of Instruction (SSI) to calculate its state appropriation for higher education. Ohio has different formulas for different types of campuses: university main campuses, university regional campuses, and community and technical college campuses. Ohio's funding formula has recently been implemented, and stop-loss provisions are still in place.

⁷⁴ State Strategies Vary Amid Budget Squeeze. *Community College Week*. Feb. 20, 2012.
<http://www.ccweek.com/news/templates/template.aspx?articleid=2939&zoneid=7>

*University Main Campuses*⁷⁵

The *University Main Campus* funding model consists of three components: (1) a course completion component, (2) a student success component, and (3) an institutional specific goals and metrics component.

For the Course Completion Component, Ohio is unique because it collects cost data based on actual operating expenditures per student credit hours, which are aggregated into standardized full-time equivalent student units. In determining the average cost for the Fiscal Year 2012-2013 biennium, the calculation is based on data for FY 2004, FY 2005, FY 2006, FY 2007, FY 2008 and FY 2009. The resulting average is adjusted for inflation. STEM, graduate classes, and at-risk students are then weighted preferentially. The resulting cost per FTE is then multiplied by the subsidy eligible FTEs, which is based on course completion of a grade D or higher.⁷⁶ The resulting weighted FTEs are averaged over 5 years and 2 years, and the average resulting in the largest calculation is used for each institution.

Doctoral hours are not funded through the SSI formula, but are funded through a doctoral set-aside established by the Graduate Funding Commission. This is schedule to change in the 10th year of the model to 25% research grant activity, 25% quality measure, and 50% degrees awarded.

At-risk degrees are defined as degrees earned by students with any of the following characteristics:

- Age: over 25 at the time of graduation
- Less than \$2,190 in annual income in the last 3 years prior to degree attainment
- Less than 17 on ACT Exam in either the Math or English
- Any developmental course at any time before the degree was awarded on any USO campus
- Race: African American, American Indian, or Hispanic

The Student Success Component is based on degree awarded. For FY 2012, the weighted degree cost component was calculated as 15% of FY 2012 value for the State Share of Instruction excluding one set-aside. For FY 2013, the weighted degree cost component was calculated as 20% of the FY 2013 value for the State Share excluding one set aside. The statewide average degree costs is determined from the average credit hour cost described above. This degree cost is multiplied by the number of degrees earned at each campus weighted by degree, at-risk student status, and campus information and a percentage calculated to allocate the entire appropriation used for degree attainment.

The final piece of the formula is the Institutional Specific Goals and Metrics Component. Each University receives an initial set-aside share of funding equal to their enrollment and student success components of the funding formula, which the chancellor redistributes based on each institution's relative progress and achievement of its institution specific goals and metrics.

⁷⁵ Ohio Board of Regents. *State Share of Instruction Handbook: Providing the Methodology for Allocating State Share of Instruction Funds for FY 2012 and FY 2013 For Use by: University Main Campuses*.
<http://www.ohiohighered.org/sites/default/files/uploads/financial/ssi/HANDBOOK%20UM.pdf>.

⁷⁶ Ohio Board of Regents. *A Funding Formula for Ohio's Universities based on Outcome Goals*.
<http://www.ohio.edu/.../IUC-Funding-Recommendations-Final.pdf>

*Regional Campuses*⁷⁷

Funding for regional campus is allocated entirely with the Course Completion Component and the Institutional Specific Goals and Metrics Component, both described above.

*Community and Technical Colleges*⁷⁸

Funding for community and technical colleges funding model consists of an enrollment component and the student success component. The institutional specific goals and metrics component for community and technical colleges has been defined by the Board of Regents and come off the top of the allocation. For FY 2013, 90% of the formula allocation is based on the enrollment component and the remaining is allocated for the student success component.

The enrollment component is calculated with the same method as the student success component described above, except enrollments are used instead of successful course completions. The student success component is based on the following success points:⁷⁹

1. Students earning their first 15 college level semester SCH at this institution by the current year.
2. Students earning their first 30 college level semester SCH at this institution by the current year.
3. Students earning at least one associate degree from this institution in the current year.
4. Students completing their first developmental course in the current year earn 2/3 of a point.
5. Students completing any developmental English in the previous year and attempting any college level English either in the remainder of the previous year on any term this year earn 2/3 of a point.
6. Students completing any developmental Math in the previous year and attempting any college level Math either in the remainder of the previous year on any term this year earn 2/3 of a point.
7. Students enrolling for the first time at a USO University main campus or branch this year and have previously earned at least 15 college level semester SCH at this community college.

These Success Points are selected from 4 different cohorts of students:

1. Students enrolled in the current year at each Community College are the source for Success Points 1, 2 and 4.
2. Students graduated with an Associated Degree from each Community College are the source for Success Point 3.
3. Students completing developmental English or Math in the previous year at each Community College are the source for Success Points 5 - 6.
4. Students enrolling for the first time at any USO University main campus or branch in the current year are the source for Success Point 7.

⁷⁷ Ohio Board of Regents. *State Share of Instruction Handbook: Providing the Methodology for Allocating State Share of Instruction Funds for FY 2012 and FY 2013 For Use by: University Main Campuses*. <http://www.ohiohighered.org/sites/default/files/uploads/financial/ssi/HANDBOOK%20UB.pdf>.

⁷⁸ Ohio Board of Regents. *State Share of Instruction Handbook: Providing the Methodology for Allocating State Share of Instruction Funds for Fiscal Year 2012 and Fiscal Year 2013*. October 31, 2011.

⁷⁹ Ohio Board of Regents. *Student Success Initiative*. July 29, 2010. http://regents.ohio.gov/hei/success_points.html

The three-year average of each of these Student Success points is used to calculate each Community and Technical College's share of the student success funding.

Table A.7. Higher education funding formulas in Ohio.

Ohio – Formula for universities	
Instructional Support	Average cost per credit hour multiplied by successfully completed credit hours (D or higher) weighted by STEM, graduate level, and at-risk student status.
Remedial Education	-
Operations and Maintenance	-
Academic Support	-
Student Services	-
Institutional Support	-
Scholarships	-
Public Service	-
Research	-
Performance Criteria	This degree cost is multiplied by the number of degrees earned at each campus weighted by degree, at-risk student status, and campus information and a percentage calculated to allocate the entire appropriation used for degree attainment plus institution-specific goals and metrics.
Workforce Development	-
Student-Derived Revenues	-

Ohio – Formula for regional universities	
Instructional Support	Average cost per credit hour multiplied by successfully completed credit hours (D or higher) weighted by STEM, graduate level, and at-risk student status.
Remedial Education	-
Operations and Maintenance	-
Academic Support	-
Student Services	-
Institutional Support	-
Scholarships	-
Public Service	-
Research	-
Performance Criteria	Institution-specific goals and metrics
Workforce Development	-
Student-Derived Revenues	-

Ohio – Formula for regional community and technical colleges	
Instructional Support	Average cost per credit hour multiplied by enrollment weighted by STEM, graduate level, and at-risk student status.
Remedial Education	-
Operations and Maintenance	-
Academic Support	-
Student Services	-
Institutional Support	-
Scholarships	-
Public Service	-
Research	-
Performance Criteria	Student Success Points
Workforce Development	-
Student-Derived Revenues	-

11. Oregon⁸⁰

Oregon uses a Resource Allocation Model (RAM) to allocate state funding to Oregon State Universities. The RAM contains two mechanisms: (1) a per-student FTE basis that is funded through a cell matrix, and (2) a targeted program basis. In addition to the RAM, in 2011-2012, \$6.4 million was reserved for initiative funding.

The component of funding driven by enrollment is calculated by multiplying fundable student FTE (Oregon residents (generally) enrolled in fall, winter, and spring) reported at the end of each term with funding values identified in 18 cells, which are defined by categorizing the Classification of Instructional Programs (CIP) Code into four levels of instruction. 2011-12 six additional cells were added to the original 12 to reflect priority graduate level funding for student FTE in certain fields of study deemed important to the Oregon economy. Though these cells may have been based on cost in the past, they have been discounted since the early 2000s to account for a decrease in state support.

Targeted programs, grouped by functions such as regional university support, engineering, research institutes/programs, and center services, are primarily mission-based rather than enrollment-driven, and account for approximately 37% of the state operations funding.

In 2011-2012, a reserve of \$6.4 million was established for initiatives to advance student success goals or to recognize specific campus achievements in student success. For 2011-12, 50% of the reserve was allocated among the campuses based on the total number of resident Oregon degree recipients produced (including both undergraduate and graduate students) for 2010-11. In addition, the remain 50% was allocated among the campuses based on the number of declared underrepresented resident

⁸⁰ Lewis, Jan. Personal communication. 2012.

Oregon University System. (2011). *FAQs: Senate Bill 242*.

http://www.ous.edu/sites/default/files/state_board/workgroups/gpc/files/SB242FAQsFINAL.pdf

Oregon University System. *2011-12 Budget Summary Report*.

<http://www.ous.edu/sites/default/files/dept/budget/files/2011-12BRS.pdf>

Oregon degree recipients plus rural resident Oregon degree produced (including both undergraduate and graduate students) for 2010-11.

Table A.8. Higher education funding formulas in Oregon.

Oregon – Formula for higher education institutions	
Instructional Support	Average “cost” per credit hour multiplied by enrolled credit hours. Plus target program funding.
Remedial Education	-
Operations and Maintenance	-
Academic Support	-
Student Services	-
Institutional Support	-
Scholarships	-
Public Service	-
Research	-
Performance Criteria	Degrees received by Oregon residents, degrees received by underrepresented Oregon residents and rural Oregon residents.
Workforce Development	6 new cells in weighting matrix for instruction funding certain for fields of study deemed important to the Oregon economy.
Student-Derived Revenues	-

12. Pennsylvania^{81,82}

Pennsylvania uses a funding formula that calculates the costs for instruction, support services, and physical plant. It also includes an adjustment for small universities.

The instruction component supports instruction, public service, and research and is calculated by multiplying the average of the two-year in-state full time equivalent enrollment by a course level and discipline cost matrix. The matrix is a 4 x 2 with the levels consisting of lower division, upper division, master's, and doctoral cost category and the disciplines are categorized as normal cost disciplines and high cost disciplines.

The support services component uses a flat dollar amount to support academic support, student services, and institutional support. The formula uses same two-year enrollment figures as used for the instruction calculation. The physical plant formula is calculated as 2.5% of the Education and General (E&G) facilities replacement value and 1.5% of the infrastructure replacement value, plus a fixed dollar amount per gross square foot where the gross square footage is the average of actual space inventory and space guidelines. The small university adjustment funds all universities at the amount needed for

⁸¹ Pennsylvania State System of Higher Education. *Allocation Formula Overview*.
<http://www.passhe.edu/inside/anf/budget/Pages/Allocation-Formula.aspx>.

⁸² Pennsylvania State System of Higher Education. *2011-2017 Performance Funding Program*.
[http://mansfield.edu/academic-affairs/media/files/PBF%20Conceptual%20Framework%20Document%203-30-12%20Final%20\(4\).pdf](http://mansfield.edu/academic-affairs/media/files/PBF%20Conceptual%20Framework%20Document%203-30-12%20Final%20(4).pdf).

1,000 students and provides additional support to universities with enrollment below 5,000 on a decreasing scale. The small university adjustment is funded entirely from state appropriation, while state appropriation and other revenues fund the main components of the formula.

Besides the allocation model, Pennsylvania employs a performance-based model to allocate approximately \$36 million of \$412 million total funding (2012-2013).⁸³ Pennsylvania four-year institutions must choose ten performance measures, consisting of five mandatory and five optional performance indicators, to be evaluated over a five-year period, with an optional 3-year review. The ten performance measures span three main principles: student success, access, and stewardship. In addition to these three areas, universities can also develop their own indicators, as approved by the Chancellor. For all indicators, university performance will be measured via progress toward institution-specific goals and against external comparisons or expectations. Each university has the ability to meet performance on each measure for a maximum total of ten points, or one point per measure. All points are totaled for each university and weighted by the university's base appropriations funding determined by the allocation formula, exclusive of the small university adjustment factor. The weighted points are divided into the total performance funding pool to create a dollar-per-point value that is multiplied by the number of points the university earned to establish the allocation.

The standardized performance measures universities can choose are listed below:

Student Success

Group I: Two measures

1. Degrees Conferred
 - a. Number of associate, baccalaureate, and graduate degrees conferred
 - b. Baccalaureate degrees awarded per FTE undergraduate enrollment
2. Closing the Achievement Gaps for Freshmen
 - a. Closing the Achievement Gap for Pell Recipients
 - b. Closing the Achievement Gap for Underrepresented Minority (URM) Students

Group II: Universities can select from the following:

1. Student Persistence
 - a. Overall percentage of students returning for a third academic year
 - b. Overall percentage of students returning for a fourth academic year
2. Value-Added—Senior CLA, CAAP, or ETS® Proficiency Profile Scores
3. STEM and Health Profession (STEM-HP) Degree Recipients—Percentage of university degree recipients in high need programs such as science, technology, engineering, mathematics(STEM), and health care
4. Closing the Achievement Gaps for Transfer Students
 - a. Closing the Transfer Achievement Gap for Pell Recipients
 - b. Closing the Transfer Achievement Gap for URM) Students

Access

Group I: Two measures

1. Closing the Access Gaps for Freshmen
 - a. Closing the Access Gap for Pell Recipients
 - b. Closing the Access Gap for URM Students
2. Faculty Diversity

⁸³ Lois Johnson, Director of Financial Management at Pennsylvania State System of Higher Education. Personal communication

- a. Percent of full-time tenure/tenure-track faculty who are nonmajority persons
- b. Percent of full-time tenure/tenure-track faculty who are female

Group II: Universities can select from the following:

- 1. Faculty Career Advancement
 - a. Percent of Associate Professors who are nonmajority
 - b. Percent of Associate Professors who are female
 - c. Percent of Professors who are nonmajority
 - d. Percent of Professors who are female
- 2. Employment (Nonfaculty) Diversity
 - a. Percent of Executives who are nonmajority
 - b. Percent of Executives who are female
 - c. Percent of Professional staff who are nonmajority
 - d. Percent of Professional staff who are female
- 3. Student Diversity
 - a. Percent of total student enrollment who are federal Pell Grant recipients
 - b. Percent of total student enrollment who are nonmajority
- 4. Closing the Access Gaps for Transfers
 - a. Closing the Access Gap for Pell Recipients
 - b. Closing the Access Gap for URM Students

Stewardship

Group I: One measure

- 1. Private Support—Three-year average of total dollars raised

Group II: Universities must select at least one from the following:

- 1. Facilities Investment
- 2. Support Expenditures as Percent of Cost of Education
- 3. Instructional Productivity
- 4. Employee Productivity

For two-year institutions, different funding formulae have been used for different institutions from the 1960s to 2011. The Pennsylvania Commission for Community Colleges has created a task force in 2011 to develop a unified funding formula, and a new funding model is currently being developed.

Table A.9. Higher education funding formulas in Pennsylvania.

Pennsylvania – Formula for universities	
Instructional Support	Two-year average of enrolled students multiplied by a level and cost matrix.
Remedial Education	-
Operations and Maintenance	2.5% of the Education and General (E&G) facilities replacement value and 1.5% of the infrastructure replacement value, plus a fixed dollar amount per gross square foot where the gross square footage is the average of actual space inventory and space guidelines
Academic Support	Two-year enrollment figures multiplied by flat dollar figure.
Student Services	
Institutional Support	
Scholarships	
	-

Public Service	Included in the instructional component
Research	Included in the instructional component
Performance Criteria	\$36 million distributed on 10 institution-specific metrics.
Workforce Development	-
Student-Derived Revenues	Accounted for to meet the formula calculation

13. South Carolina⁸⁴

South Carolina used to have a 100% performance-based funding formula until 2003. In 2003, the performance-based model was removed due to its complexity and was replaced by a non-performance-based method review below.⁸⁵ In January 2012, South Carolina announced its plan to reintroduce a performance-based funding model, which takes into account graduation rates, job placement, institutional outcomes in economic development, and services to disadvantaged students.⁸⁶

Currently, South Carolina is using the Mission Resource Requirements (MRR) funding model to determine the state fund appropriation for research, teaching, regional, and technical institutions.

The instruction component of the formula is calculated using three-year rolling average of student credit hours, which are converted to FTEs based on student/faculty ratios. The resulting number of faculty is then multiplied by the regional average salaries for that discipline by sector. Salary data is from the College and University Personnel Association. Benefits are added. Instruction support is funded at a discipline-specific percentage of the faculty salary-based costs. The combined value of faculty costs and instructional support represents the total Instructional costs.

The formula calculates support for research at 30% of previous year's sponsored research expenditures at the institution is included to foster the continuation and expansion of research activities. Public Service support is calculated 25% of the previous year's sponsored public service and non-general fund public service expenditures at the institution. Support for libraries and student services is calculated on a per student headcount formula, adjusted for the size of the institution.

The formula calculates support for physical plant costs based on the building values, replacement costs of the Education and General (E&G) buildings, maintenance costs, custodial service/average hourly wage, the E&G square footage of buildings, and the total number of acres of regularly maintained areas.

⁸⁴ South Carolina Commission on Higher Education. *FY 2008-2009 Mission Resource Requirements Funding Model (MRR)*. http://www.che.sc.gov/Finance/Fin/MRRManual/2008-09_MRR_Booklet.pdf.

Julie Carullo SC Commission on Higher Education. Personal communication. May 2012.

Harnisch, Thomas L. (2011). *Performance-based Funding: A Re-Emerging Strategy in Public Higher Education Financing*. http://www.congressweb.com/aascu/docfiles/Performance_Funding_AASCU_June2011.pdf.

McLeod, Harriet. (April 11th, 2011). South Carolina Moves to Define Performance-based Funding Formula for Higher Education. *Diverseeducation.com*. <http://diverseeducation.com/article/15010/>.

⁸⁵ Community College Research Center (CCRC). *CCRC Working Paper No. 22, The Political Origins of State-Level Performance Funding for Higher Education*. The Cases of Florida, Illinois, Missouri, South Carolina, Tennessee, and Washington. <http://ccrc.tc.columbia.edu/Publication.asp?UID=819>.

⁸⁶ Harnisch, Thomas. "Performance-based Funding: A Re-Emerging Strategy in Public Higher Education Financing." *American Association of State Colleges and Universities: A Higher Education Policy Brief*.

Administration support associated with non-instructional faculty activities and academic and institutional support is calculated at 25% of the total costs for instruction, libraries, student services, and physical plant.

The resulting sum of support is then reduced by student revenues such as tuition and some fees in order to determine the amount of support required from the State. In 2008-2009, the target revenue for four-year institutions was 50% for in-state undergraduate students and 100% for out-of-state students. Target revenue for graduate students was 30% for instate and 100% for out-of-state students.

Table A.10. Higher education funding formula in South Carolina.

South Carolina – Formula for higher education institutions	
Instructional Support	Three-year rolling average of student credit hours, which are converted to FTEs based on student/faculty ratios. The resulting number of faculty is then multiplied by the regional average salaries for that discipline by sector.
Remedial Education	-
Operations and Maintenance	Based on the building values, replacement costs of the Education and General (E&G) buildings, maintenance costs, custodial service/average hourly wage, the E&G square footage of buildings, and the total number of acres of regularly maintained areas.
Academic Support	Discipline-specific percentage of the faculty salary-based costs plus library support.
Student Services	Headcount formula.
Institutional Support	25% of the total costs for instruction, libraries, student services, and physical plant.
Scholarships	-
Public Service	25% of the previous year's sponsored public service and non-general fund public service expenditures at the institution.
Research	30% of previous year's sponsored research expenditures at the institution.
Performance Criteria	-
Workforce Development	-
Student-Derived Revenues	Accounted for to meet the formula calculation of need.

14. Tennessee^{87,88}

In 2010, the *Complete College Tennessee Act* required the development of a new outcomes-based funding formula that emphasizes student retention and degree completion. The outcomes-based formula accounts for approximately 85% of the state appropriation. The remainder is allocated to fixed costs, legislative initiatives, and the Performance Funding: Quality Assurance component, which is

⁸⁷ Tennessee Higher Education Commission. *Outcome Based Formula Explanation*. January 2011.
http://tn.gov/thec/complete_college_tn/ccta_files/outcomes_based_ff/Outcomes_Based_Formula_Explanation.pdf.

⁸⁸ Tennessee Higher Education Commission Fiscal Affairs. *Dynamic Outcomes Funding Formula*.
http://www.tn.gov/thec/Divisions/Fiscal/fiscal_affairs.html

discussed below. The Tennessee funding framework allows for different weightings for each institution to reflect the different missions of each institution. Hence, no two institutions have the same weightings. However, each data input is rescaled or normalize the data, if necessary, so it is comparable across variables. The scaling is constant across institutions and are listed in Table A.11. In addition, adult and Pell- eligible student receive a 40% premium in the calculations.

Table A.11. Tennessee outcomes-based formula scaling weights.

Community College Outcomes	Scales	University Outcomes	Scales
Students Accumulating 12 hrs	2	Students Accumulating 24 hrs	1
Students Accumulating 24 hrs	2	Students Accumulating 48 hrs	1
Students Accumulating 36 hrs	2	Students Accumulating 72 hrs	1
Dual Enrollment	2	Bachelors and Associates	1
Associates	1.5	Masters/Ed Specialist Degrees	0.3
Certificates 1-2 Years	1.5	Doctoral / Law Degrees	0.05
Certificates Less Than 1 Year	1.5	Research and Service	20,000
Job Placements	0.5	Transfers Out with 12 hrs	1
R & D Success	5	Degrees per 100 FTE	0.02
Transfers Out with 12 hrs	2	Six-Year Graduation Rate	0.04
Workforce Training	50		
Awards per 100 FTE	0.05		

Tennessee has different weights on the performance components dependent on the institutional mission as shown in Table A.12 and Table A.13. Most institutions have different weightings, yet some institutions have similar missions and therefore the same weights such as East Tennessee State University (ETSU) and Tennessee State University (TSU); however, due to the 40% premium on certain outcomes for low-income and adult students, the actual calculations may be different with the same inputs. The weighting structure was determined by the Formula Review Committee and is based on institutional mission and, at the university level, informed by Carnegie Classification. Priorities were determined by each institution's leadership with input from the Formula Review Committee. While the weighting structure may be adjusted in the future to reflect evolving institutional missions, there are no current plans to change the weighting in the near term.

To calculate funding levels, a three-year average of outcome data are collected from the statewide student information system, rescaled or normalized if necessary, and weighted according to the institution's mission. The results are then multiplied by southern regional board average faculty salary amounts. Added to this are maintenance, operations, and equipment fixed costs to produce the estimated need. Of the estimated need, the state is expected to cover 66.67% at community colleges and 55% at universities while tuition and fees are expected to cover the rest. Since out-of-state fees decrease the subsidy amount needed, out of state tuition revenue is subtracted. Distributions are made on a pro-rata basis per institution when the state does not fund 100% of the formula. No base allocation is guaranteed, and all funding must be earned anew each year.

Table A.12. Tennessee outcomes-based formula weights for universities.

Universities	APSU	UTM	TTU	UTC	MTSU	ETSU	TSU	UM	UTK
Students Accumulating 24 hrs	3%	3%	3%	3%	3%	3%	3%	2%	2%
Students Accumulating 48 hrs	5%	5%	5%	5%	5%	5%	5%	3%	3%
Students Accumulating 72 hrs	7%	7%	7%	7%	7%	7%	7%	5%	5%
<i>Progression</i>	<i>15%</i>	<i>15%</i>	<i>15%</i>	<i>15%</i>	<i>15%</i>	<i>15%</i>	<i>15%</i>	<i>10%</i>	<i>10%</i>
Bachelors and Associates	25%	30%	25%	25%	25%	25%	25%	25%	15%
Masters / Ed Specialist Degrees	20%	15%	15%	15%	15%	15%	15%	15%	15%
Doctoral / Law Degrees	0%	0%	5%	5%	7.5%	7.5%	7.5%	10%	10%
Research and Service	10%	10%	10%	10%	12.5%	12.5%	12.5%	12.5%	15%
Transfers Out with 12 hrs	10%	10%	10%	10%	5%	5%	5%	5%	5%
Degrees per 100 FTE	10%	15%	10%	10%	10%	10%	10%	7.5%	10%
Six-Year Graduation Rate	10%	5%	10%	10%	10%	10%	10%	15%	20%
	100%	100%	100%	100%	100%	100%	100%	100%	100%

▼
Bachelors degrees; little
research/doctoral degrees

▼
Extensive doctoral degrees
and emphasis on research

Table A.13. Tennessee outcomes-based formula weights community colleges.⁸⁹

Community Colleges	CHSCC	CLSCC	COSCC	DSCC	JSCC	MSCC	NASCC	NESCC	PSCC	RSCC	STCC	VSCC	WSCC
Students Accumulating 12 hrs	6%	6%	4%	6%	6%	6%	4%	4%	6%	2%	4%	2%	4%
Students Accumulating 24 hrs	7%	7%	5%	7%	7%	7%	5%	5%	7%	3%	5%	3%	5%
Students Accumulating 36 hrs	7%	7%	6%	7%	7%	7%	6%	6%	7%	5%	6%	5%	6%
<i>Progression</i>	<i>20%</i>	<i>20%</i>	<i>15%</i>	<i>20%</i>	<i>20%</i>	<i>20%</i>	<i>15%</i>	<i>15%</i>	<i>20%</i>	<i>10%</i>	<i>15%</i>	<i>10%</i>	<i>15%</i>
Dual Enrollment	5%	10%	10%	5%	5%	5%	5%	5%	10%	10%	5%	10%	10%
Associates	5%	15%	10%	10%	20%	10%	20%	20%	20%	20%	10%	20%	20%
Certificates 1-2 Years	5%	1%	4%	2%	3%	0%	7%	17%	0%	6%	2%	4%	1%
Certificates Less Than 1 Year	5%	9%	1%	8%	7%	5%	13%	3%	5%	14%	18%	16%	19%
<i>Total Certificates</i>	<i>10%</i>	<i>10%</i>	<i>5%</i>	<i>10%</i>	<i>10%</i>	<i>5%</i>	<i>20%</i>	<i>20%</i>	<i>5%</i>	<i>20%</i>	<i>20%</i>	<i>20%</i>	<i>20%</i>
Job Placements	20%	5%	5%	10%	5%	10%	10%	10%	10%	15%	10%	5%	5%
Remedial & Developmental Success	10%	20%	10%	20%	15%	10%	10%	5%	5%	5%	20%	10%	10%
Transfers Out with 12 hrs	15%	10%	20%	15%	10%	20%	10%	10%	15%	10%	5%	15%	10%
Workforce Training (Contact Hours)	10%	5%	5%	5%	5%	5%	5%	5%	10%	5%	5%	5%	5%
Awards per 100 FTE	5%	5%	20%	5%	10%	15%	5%	10%	5%	5%	10%	5%	5%
	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

⁸⁹ *Ibid.*

In addition to Tennessee's outcome-based formula, the Tennessee Higher Education Commission has a separate performance funding program that has been in operation for 30 years. All public universities and community colleges have been able to "earn" additional funds (up to 5.45 percent of the institution's state funding) on the basis of quality improvement as measured by a common set of indicators. A collective \$50 million is awarded annually for evidence of improved quality in programs and services. For 2010-15, 100 percent of Performance Funding points are now dedicated to quality assurance. Thus, the 2010-15 Performance Funding Program reinforces the Funding Formula but does not duplicate its purpose. Within the performance pool, institutions choose five subpopulations to measure quality of student learning and engagement and access and success that are important to their mission and service area.⁹⁰ This results in institution-specific performance metrics that are reviewed every five years.

Tennessee's change from a primarily enrollment-driven approach to an output approach has resulted in campuses bringing in extra student advisors, increasing tutoring and remedial classes, fast-track majors, and developing extra courses between semesters.⁹¹

Table A.14. Higher education funding formula in Tennessee.

Tennessee – Formula for higher education institutions	
Instructional Support	-
Remedial Education	-
Operations and Maintenance	
Academic Support	-
Student Services	-
Institutional Support	-
Scholarships	-
Public Service	-
Research	-
Performance Criteria	Degree awarded, progress metrics, quality metrics.
Workforce Development	-
Student-Derived Revenues	Subtracted from estimated need.

The Board of Trustees and the Board of Regents set the tuition and fees for the institutions under their respective control. According to the Tennessee Code Ann. § 49-7-2014, the fees collected by the institution are deposited in the state treasury and credited to a special agency account. Tuition collected by the institutions is appropriated by the legislature through a funding formula – i.e., student revenue is subtracted from estimated need.^{92,93}

⁹⁰ Tennessee Higher Education Commission. *The Public Agenda for Tennessee Higher Education 2010-2015*. http://www.tn.gov/thec/complete_college_tn/ccta_files/master_plan/The%20Public%20Agenda%20with%20A%20appendices%20Jan2011.PDF

⁹¹ Harnisch, Thomas. "Performance-based Funding: A Re-Emerging Strategy in Public Higher Education Financing." *American Association of State Colleges and Universities: A Higher Education Policy Brief*.

⁹² *State of Tennessee Budget. Fiscal Year 2012-2013*. PP. B-370.

⁹³ SHEEO. *2010-2011 State Tuition, Fees, and Financial Assistance Survey 2010-2011*. <http://www.sheeo.org/finance/tuit/>.

15. Texas

The Texas system of public higher education encompasses 35 general academic teaching institutions (including law schools), with three new institutions emerging by the end of 2011; 50 community and junior college districts; one technical college system with four main campuses; three lower-division state colleges; and nine health-related institutions, which operate a total of eight state medical schools, three dental schools, two pharmacy schools, and numerous other allied health and nursing units. Formulas are utilized to calculate institution-level allocations for higher education, but do not reflect how the allocation may ultimately be spent, as appropriations to institutions are made in a lump sum. Texas funding formulas are driven principally by enrollment and the actual cost of program delivery; however, they also differentiate teaching costs by tenure and tenure-track professors versus adjunct and graduate student instructors when calculating supplements. Texas has a small performance fund that is distributed outside the formula and is only applied to general academic institutions, not community colleges or health-related institutions.

More than half of state appropriations for general academic teaching institutions are allocated via an instruction and operations formula, teaching experience supplements, an infrastructure formula, and a small institution supplement.

General academic teaching institutions

Instruction and Operations supports faculty salaries, departmental operating expenses, instructional administration, and libraries with the following formula. The Texas Legislature approves the program and level weights as well as the rate. The rate is based on available funding, and in 2010-2011 the rate was \$62.19 per weighted semester credit hour. The program and level weights are based on an aggregation of actual costs from institutions' annual financial reports. Currently, the Coordinating Board uses a rolling three-year average to adjust the weights each biennium. The semester credit hours are calculated by the number of students enrolled in a class multiplied by the number of credit hour of the class, and then summed over the entire university for a specific a base period. For the 2010-2011 biennium the base period covered summer 2008, fall 2008, and spring 2009. The instruction component of the formula calculates support by multiplying the enrolled student credit hours by the program weight and the credit hour rate.

Texas uses a statewide Infrastructure rate ("all other rate") that is augmented by an adjusted utility rate that is calculated for each institution to incorporate different utility costs from institution to institution. The rate is multiplied by a square feet measure that is the result of the Coordinating Board's Space Projection Model for Higher Education Institutions in Texas. The model is based on full-time-student equivalents with consideration of degree level (undergraduate, master, doctorate), because Texas states that upper level students require less special or general use space, classrooms, and class labs. Each type of program is allowed a specific amount of square feet per FTE for each level. For undergraduate space, this amount of space is slightly reduced with every 1,000 FSTE above 15,000. The space funded for libraries is dependent on the collection size, which is dependent on the number of faculty, and number and level of fields. The space funded for research can be calculated two ways: 1) First, an institution can receive funding for certain amount of research space per \$1 million average research expenditures; 2) Alternatively, an institution can receive funding for a certain amount of research space per FTSE. Funding for office space is also funded by two methods: 1) First, office space can be funded on a per full-time equivalent faculty basis; 2) Alternatively, office space can be funded according to current

educational and general expenditures reported by the institution. Support space is funded at 9% of the sum of teaching, library, research, and office space allocations.

Texas also funds several non-formula items for general academic institutions. Texas provides its small institutions with a Small Institution Supplement of \$750,000 (2010-2011) if enrollments are less than 5,000. In addition, institutions with 5,000-10,000 student enrollments receive a declining proportion of \$750,000 as enrollment figures reach 10,000. Institutions can also request appropriation for specific campus-projects. In addition, the Legislature-funded Research Development Fund distributes funds to faculty for individual projects, such as laboratory and equipment upgrades and graduate student tuition. Furthermore, Texas's version of performance-based funding is distributed outside the funding formula through a performance incentive initiative, which distributed \$80 million in fiscal year 2009 for increases in degrees awarded, with special weights given to critical fields and at-risk students.

Appropriations to Texas's health-related institutions are calculated primarily through Instruction and Operations Support, Infrastructure Support, and Research Enhancement as well as mission-specific formulas. For instruction each FTE is multiplied by the program weight and \$11,129 for the 2010-2011 biennium. Programs with enrollments less than 200 receive a Small Campus Supplement. Infrastructure is funded using a square footage factor. However, the space model has different rates in addition to including a multi-campus adjustment. In addition to the Research Enhancement appropriation, a supplement for graduate medical education is added by multiplying \$6,653 by the number of medical residents per year. The Chest Disease Center and the Cancer Center also receive special per Texas patient supplements. Health-related institutions do not receive any funding tied to performance criteria.

Texas community colleges have local support in addition to state support. State appropriations are funded entirely through a funding formula based on student contact hours. Special supplements are provided to community colleges outside the formula for small institutions and dramatic enrollment factors. No physical plant support is provided by the state. Texas vocational and technical schools are funded in a similar way to community colleges, except that physical plant support is provided by the state per the infrastructure formula of general academic institutions. Developmental education courses are funded through the instructional allocations.

Only a portion of student-derived revenues is budgeted through the state budgeting process. The statutory tuition rates are set by the legislature and are included in the "general revenue-directed funds" along with some of the student fees. The revenue is transferred from the institutions to the state Treasury. For all institutions besides community colleges, the appropriated student-derived revenues offset the general fund appropriation as determined by Texas' higher education funding formula. Institutions can set tuition higher than the statutory rate, and set aside the difference for specific purposes. Fee and tuition revenues that are set-aside for specific purposes are not counted in the calculation of general appropriation funds. During fiscal year 2009, total student revenues were \$4.7 billion, of which \$3.7 billion (78%) were not deposited into the state Treasury. During fiscal year 2009, statutory tuition revenue was 32 percent (\$1.0 billion) of \$3.2 billion of tuition revenue statewide. Community college student-derived revenues are considered to be institutional funds and are neither set or appropriated by the state.⁹⁴

⁹⁴ Texas Legislative Budget Board Staff. *Texas State Government Effectiveness and Efficiency: Selected Issues and Recommendations*. January 2011. PP. 493-508.

Student derived-revenues

For every Texas institution, 25% of student-derived revenues are appropriated through the legislature and transferred from the institutions to the state Treasury and the remaining 75% of revenues are kept on campus. The statutory tuition rates are set by the legislature and are included in the "general revenue-directed funds" along with some of the student fees. The appropriated student-derived revenues offset the general fund appropriation as determined by Texas' higher education funding formula. Institutions can set tuition higher than the statutory rate and set aside the difference for specific purposes. Fee and tuition revenues that are set-aside for specific purposes are not counted in the calculation of general appropriation funds.⁹⁵

Future of performance-based funding

House Bill 9 of 2011 directs the Higher Education Coordinating Board to propose an outcomes-based funding methodology. They have proposed two different formulas to be considered by the Legislature in 2013.

Table A.15. Higher education funding formulas in Texas.

Texas – Formula for universities	
Instructional Support	Multiplying the enrolled student credit hours by the program weight and the credit hour rate.
Remedial Education	-
Operations and Maintenance	Rate multiplied by a square feet measure that is the result of the Coordinating Board's Space Projection Model for Higher Education Institutions in Texas
Academic Support	-
Student Services	-
Institutional Support	-
Scholarships	-
Public Service	-
Research	1,412,500 + 1.48% X Research Expenditures (Health Institutions)
Performance Criteria	\$80 million in fiscal year 2009 for increases in degrees awarded, with special weights given to critical fields and at-risk students. (General teaching institutions)
Workforce Development	-
Student-Derived Revenues	Subtracted from estimated need.

Texas – Formula for community colleges and technical colleges	
Instructional Support	Based on student contact hours
Remedial Education	-
Operations and Maintenance	Rate multiplied by a square feet measure that is the result of the Coordinating Board's Space Projection Model for Higher Education Institutions in Texas (Technical colleges)
Academic Support	-
Student Services	-
Institutional Support	-

⁹⁵ Texas Legislative Budget Board Staff. *Texas State Government Effectiveness and Efficiency: Selected Issues and Recommendations*. January 2011. PP. 493-508.

Scholarships	-
Public Service	-
Research	-
Performance Criteria	-
Workforce Development	-
Student-Derived Revenues	Subtracted from estimated need. (Technical colleges)

16. Virginia⁹⁶

Virginia uses a funding formula that weights institutions differently according to their mission. Virginia has no set performance-based criteria for funding; however, in exchange for more autonomy institutions must meet performance-based benchmarks dependent on each institution's individual agreement with the state.

Virginia has used a funding formula called the Base Budget Adequacy Formula since 2000. The formula calculates Instructional appropriations using full-time equivalent student enrollment. The student enrollment numbers are transformed into FTE faculty count by the use of student-to-faculty ratios, which differ by discipline and level. Higher class levels have lower student-to-faculty ratios. The resulting FTE faculty positions are multiplied by the average faculty salary to calculate direct Instructional Costs. Instructional Support Costs are calculated at 40% of the direct costs. The sum of the direct instructional Costs and Instructional Support Costs result in the total funding level for instructional programs.

Academic Support, Institutional Support, and Student Service Programs are supported at different levels for different institutions to reflect their unique missions. Virginia institutions are classified as research, doctoral, master's/comprehensive, baccalaureate, or two-year. Each type of institution has a different funding multiplier for each program. Academic Support and Institutional Support are calculated by applying a multiplier to the sum of total support, which is mainly based on FTE enrollment, while Student Services funding is based on a dollar amount per headcount student. Operations and Maintenance is also funded as a percentage of the total Instruction, Academic Support, and Student Services funding level.⁹⁷

As part of the 2000 study on higher education that produced this funding formula, the committee recommended that Virginia adopt performance-based accountability under institutional performance agreements. Performance-based accountability was never directly calculated within the formula; however, the institutions agreed to comply with their institutional performance agreements in exchange for more autonomy from the state in relation to their non-state funds.⁹⁸ As long as the institution has been certified by the State Council of Higher Education for Virginia as meeting educational-related performance benchmarks, then the institution is allowed to hold and invest its tuition revenues,

⁹⁶ State Council of Higher Education for Virginia. Senate Finance Committee Education Subcommittee Presentation. [http://sfc.virginia.gov/pdf/education/SCHEV%20SF%20presentation%20on%20base%20adequacy%20\(1-18-07\).pdf](http://sfc.virginia.gov/pdf/education/SCHEV%20SF%20presentation%20on%20base%20adequacy%20(1-18-07).pdf).

⁹⁷ Virginia Legislature, *Legislature's Joint Subcommittee on Higher Education Funding Policies Recommendations*. December 18, 2000. University of Virginia, *Budget Overview 2010-2011*. State Council of Higher Education for Virginia, *SCHEV Review of Base Adequacy Funding Guideline Methodologies and Process*, 2007.

⁹⁸ Restructured Higher Education Financial and Administrative Operations Act, Chapter 4.10 (§ 23-38.88) of Title 23, VII. *Financial Resource Retention and Management*.

education and general fees, research and sponsored program funds, and all other non-general fund revenues. Funds still have to be deposited, but certified institutions can draw down the sum on the same business day they were deposited.⁹⁹

In 2010, Virginia's governor instituted the Governor's Commission on Higher Education Reform, Innovation and Investment, which seeks to significantly increase undergraduate degrees as well high need degrees. The commission is currently considering a variety of performance-based funding options.¹⁰⁰ In January of 2012, the Virginia Governor announced his desire to go to performance funding: "I am proposing a dynamic new funding model for higher education that ties new general funds to achieving our statutory goals. Institutions will be rewarded for increasing the number of degrees, especially in STEM-H fields; improving graduation rates, and expanding practical research. It will also require colleges to be more accountable and efficient, by reprioritizing 5 percent of their current general fund dollars by 2014 to meet the key policy goals we enacted last year, including year round use of facilities and greater use of technology to leverage more programs and courses."¹⁰¹

Table A.16. Higher education funding formulas in Virginia.

Virginia – Formula for universities	
Instructional Support	Enrollment numbers are transformed into FTE faculty count by the use of student-to-faculty ratios, which differ by discipline and level. The result is multiplied by the average faculty salary plus 40% of the direct costs.
Remedial Education	-
Operations and Maintenance	Percentage of the total Instruction, Academic Support, and Student Services funding level.
Academic Support	Different percentage for different institutions to reflect their unique missions multiplied total support.
Student Services	Different levels for different institutions to reflect their unique missions multiplied by headcount.
Institutional Support	Different percentage for different institutions to reflect their unique missions multiplied total support.
Scholarships	-
Public Service	-
Research	-
Performance Criteria	-

⁹⁹ Restructured Higher Education Financial and Administrative Operations Act, Chapter 4.10 (§ 23-38.88) of Title 23, IX. Disbursement Management.

¹⁰⁰ Crowder, Melinda and Steven Janosik, "Performance Funding in Virginia Higher Education," *Virginia Issues and Answers: A Public Policy Forum*, Volume 7, Number 2, PP. 25-29, 2001. State of Virginia, *Higher Education Commission – Mission and Priorities*, <http://www.education.virginia.gov/initiatives/HigherEducation/MissionAndPriorities.cfm>.

¹⁰¹ Harnisch, Thomas and Emily Parker. 2012 *Gubernatorial State of the State Speeches and Higher Education*. February 29, 2012. [http://aascu.org/.../State%20of%20the%20States%202012\(2\).pdf](http://aascu.org/.../State%20of%20the%20States%202012(2).pdf)

Appendix B: Narratives of States That Do Not Use a Formula for Higher Education Funding

1. Alaska¹⁰²

The University of Alaska is codified in the state's constitution, and its funding therefore has a statutory basis. As a practical matter, the legislature generally begins with the past year's funding level and then considers how to reach the funding level requested by the University of Alaska Board of Regents' unified budget, which is itself based on requests from the three major academic units (or "MAUs" – Fairbanks, Anchorage, and Juneau). Once funding is approved by the legislature it falls under the direct control of the Board of Regents, but for practical purposes funding is controlled by the Chancellors of each MAU.

Alaska sets aside a pool of approximately 1% of the overall higher education budget for performance-based funding. Performance factors include degree production (especially in high need areas), undergraduate retention, and the progression of community college students from remedial to credit-bearing courses. Each MAU decides on each institution performance metrics, and controls the distribution of the performance funds, which "should be allocated to appropriate strategic investments and reported as part of the overall performance and accountability process."¹⁰³

2. Colorado¹⁰⁴

The Colorado Commission on Higher Education uses a three-part model to create a budget based on the Governor's "budget mark". In general, each institutional is allocated what they received last year (base) and an addition based on enrollment increases to address the Commission's principles: providing adequate funding to keep all institutions open, addressing the significant enrollment growth at some institutions during the current economic downturn and providing funding for high cost programs. Since in the recent past general fund budget has been reduced, the reduction has been taken out of the base, though enrollment increases have been distributed, the total amount has also been reduced.¹⁰⁵

Colorado requires institution-specific performance contracts for institutions that participate in the College Opportunity Fund program. Each one of the performance contracts is individually tailored

¹⁰² Oba, University of Alaska, Academic Affairs & Research. Personal communication. 2012.

University of Alaska System of Higher Education, 2010. *Performance Evaluation Guidelines*.

¹⁰³ University of Alaska System of Higher Education. *Performance Evaluation Guidelines*. 2010.

¹⁰⁴ Brodhed, Patrick. (2012). *Colorado Department of Higher Education FY 2012-13 Staff Figure Setting (JBC Working Document)*. Denver, CO.

Colorado Commission on Higher Education. (2011). *Agenda Item III, B: Proposed FY 2012-13 General Fund Allocation*.

Colorado Senate Bill 11-052. (2011).

http://www.leg.state.co.us/clics/clics2011a/csl.nsf/fsbillcont3/63B087D7A1DC83D687257801006051AC?open&file=052_enr.pdf.

National Conference of State Legislatures. (2011). *Higher Education Legislation in 2011*.

<https://www.ncsl.org/issues-research/educ/highereducationlegislation2011.aspx>.

Engdahl, Todd. "Education budget decisions delayed." *EdNews Colorado*. March 5, 2012.

<http://www.ednewscolorado.org/2012/03/05/34334-education-budget-decisions-delayed>

¹⁰⁵ Department of Higher Education. *ES-1 – FY 2011-12 Higher Education Budget Balancing General Fund Reduction*. Online.

to the specific governing board's unique role and mission; however, most performance contracts include several common performance measures, principally in areas related to student access and success. Colorado is currently reviewing its funding methods, and plan to tie future performance contracts to funding.¹⁰⁶

Student-derived revenues

Although it had previously appropriated tuition and fee revenues, Colorado has enacted legislation that temporarily modifies this arrangement. For the period FY2011-12 through FY2015-16, fees will continue to be appropriated, but tuition revenues will be retained under the authority of institutional governing boards.¹⁰⁷

3. Delaware¹⁰⁸

Higher education funding in Delaware is provided as part of the annual appropriations bill for all state general fund appropriations. Each institution's Board of Trustees develops a budget, which is presented to the Office of Management and Budget, and passed along for the Governor's consideration in developing the recommended budget. Joint Finance Committee hearings are held for all agencies, and a proposed budget is drafted and presented to the legislature for voting. Generally the funding base is the previous year's total budget, which will be adjusted based on mandatory or discretionary spending items, depending on the state's financial situation. Allocated state funds for higher education generally fall under the control of individual institutions, but may be restricted by the funding bill.

4. Iowa¹⁰⁹

The Board of Regents of the State of Iowa governs all three of Iowa's public universities and two special schools; therefore, individual institutions do not have their own boards. Funding is not based on enrollment or any other factor; rather, the legislature starts with the base budget from the previous year, and may add or subtract funds, or allocate a flat amount. This can be classified as a "base plus" method. The Board of Regents approves operating and restricted fund budgets. Occasionally the legislature adds unique funding for operations or capital funds for specific purposes that will not be included in the base amount.

State operating funds are generally designated for a specific institution to cover various expenses including salaries, support, maintenance, equipment, and other miscellaneous purposes. "Special purpose" operating units, including the State Hygienic Lab at the University of Iowa, Cooperative Extension at Iowa State University, the Recycling and Reuse Center at the University of Northern Iowa, and economic development programs at each institution, are funded separately from the central higher education budget.

¹⁰⁶ Colorado Department of Higher Education. *Higher Education Strategic Plan FY 2012-13*. November 2011.

¹⁰⁷ Colorado Department of Higher Education, *Policies & Procedures, Section VI. Part C, rev.* February 4, 2011. <http://higher.ed.colorado.gov/Publications/Policies/Current/vi-partc.pdf>. SHEEO 2010-2011 State Tuition, Fees, and Financial Assistance Survey 2010-2011: <http://www.sheeo.org/finance/tuit/>.

¹⁰⁸ Maureen Laffey, Delaware Department of Education, Personal Communication. May 17, 2012.

¹⁰⁹ Brad Berg, Board of Regents, State of Iowa. Personal Communication. April 25, 2012.

5. Kentucky¹¹⁰

Since 2006, Kentucky institutions of higher education have been funded using a “base plus” system, although due to the current economic climate the total base plus amounts requested have often not been met. The state supplements this funding with The Bucks for Brains (B4B) program, which requires institutions to match state funds with private contributors, including philanthropists, corporations, foundations, and other non-profits. The matched funds are invested and remain unused, but earnings on the principal are used to fund faculty positions, programs, or scholarships. There are six B4B funds: Research Challenge, Regional University Excellence, Technology Initiative, Physical Facilities, Postsecondary Workforce Development, and Student Financial Aid and Advancement.¹¹¹

6. Maine¹¹²

Maine does not use a higher education funding formula for its universities or community colleges, nor is there any statutory basis for funding practice. Although a “base plus” system has been used in the past, the state is going to try zero-based budgeting for the next biennium. The legislature may restrict funds either for specific purposes, or for specific institutions. Four-year institutions fall under the authority of the University of Maine System Board of Trustees, and funds not restricted by the legislature are controlled and distributed to individual institutions by the Board of Trustees. Each university then develops an annual budget that must be approved by the Board of Trustees.

7. Michigan¹¹³

Michigan does not currently use a formula for higher education funding for either universities or community colleges, instead allocations have recently been based on past year's allocations, with budget cuts being distributed proportionally among the institutions.¹¹⁴ The legislature is debating currently a proposal by the Governor for a 3% increase in higher education funding that will be tied to

¹¹⁰ Bill Payne, Kentucky Council on Postsecondary Education, Personal communication. May 1, 2012.

¹¹¹ Kentucky Council on Postsecondary Education. *Kentucky's Bucks for Brains Initiative: The Vision, The Investment, The Future, 1997-2007*. 2010.

¹¹² Miriam White, Director of Budgeting & Financial Analysis, University of Maine System. Personal Communication May 4, 2012.

¹¹³ Confer, Karen. (March 28th, 2012). MSU, U-M advocate alternative higher education funding metric. *Michiganpolicy.com*. Retrieved from

http://www.michiganpolicy.com/index.php?option=com_content&view=article&id=1185:msu-u-m-advocate-alternative-higher-education-funding-metric&catid=74:state-budget-blog&Itemid=111.

Robert Murphy and Beth Bullion, Michigan Department of Technology, Management & Budget. Personal communication. May 7, 2012 and June 18, 2012.

Eisler, David L. (2011). *Performance-based Funding, House Appropriations Subcommittee on Higher Education, Ferris State University*. http://www.ferris.edu/HTMLS/administration/president/presentations/2011-2012/Performance_based_funding.pdf.

Jen, Kyle I. (2012) *FY 2012-13: Higher Education, Summary: As Passed by the Senate, Senate Bill 955 (S-1) as Amended*. http://www.house.mi.gov/hfa/Summaries/12s955s1%20Higher%20Ed%20Summary_senate%20passed%20w%20attach.pdf.

¹¹⁴ Matthew Miller, "Funding formula idea worries leaders at state universities; Officials fear they might not have time to adjust", *Lansing State Journal*, April 6, 2011.

performance measures for FY 2013. The proposed approach in the Executive Budget uses four metrics. The following metrics each carry funding of \$9 million and data for each metric are used to determine the dollar amount per unit of measure and the allocation to institutions:

1. Growth in undergraduate degree completions measured by three-year average change in undergraduate degrees.
2. Three-year average number of undergraduate degree completions in critical skill areas.
3. Three-year average number of all undergraduate students receiving Pell grants.
4. Tuition restraint based on a percentage increase in resident undergraduate tuition.

8. **Missouri**^{115,116}

Missouri typically uses a “base plus” system for all higher education funding. Each institution makes an annual budget request to the state’s Coordinating Board for Higher Education, which then makes a unified budget request for all institutions to the Governor and the General Assembly. The Governor then makes a recommendation, but the actual budget bills must be passed by the legislature. Due to the current budget climate no requests for funding increases have been entertained by the Governor for several years.

In August 2011, the governor of Missouri states that his administration is working on “recommendations for a public funding formula based on performance achievements — rather than past allotments and enrollments.”¹¹⁵

9. **Nebraska**¹¹⁷

Nebraska does not use a formula to distribute state funds to its University and State College system. The Governor and Legislature use a “base plus” approach: the current appropriations for each institution become the base, and the University and State Colleges lobby for additions to the base. None of the state appropriated funding is based on enrollment growth, number of degrees conferred, or any other performance metrics.

State appropriations for community colleges used to be based on a formula that did include enrollment growth, weighting of course costs, ability to generate tax funds, and some other factors. However, starting in 2011, the state no longer uses a formula to distribute state funds to the community colleges. Rather, the state determines the overall amount of funding for the community colleges, and then those funds are distributed by percentages based on the amount each college received the last time the state used the formula.

¹¹⁵ Sampson, Tim. “Governor calls for higher education funding fix.” *Missouri News Horizon*. August 26, 2011.

¹¹⁶ Wagner, Paul. Missouri Department of Higher Education. Personal communication. May 1, 2012.

¹¹⁷ Pfeil, Carna. Associate Director at Coordinating Commission for Postsecondary Education. Personal communication. May 2012.

10. New Hampshire¹¹⁸

New Hampshire higher education has a biennial budget that is determined by the funding amount of the previous year and available state resources. In addition, the state's political processes can influence the amount of funding.

11. North Dakota¹¹⁹

North Dakota no longer uses a formula for state fund appropriations for its higher education institutions. In the past, North Dakota had used a Peer Institutions Comparison method to calculate the appropriate amount of funding for each school. This was done to try to close the gap in the distribution of resources across universities and colleges in North Dakota. The Peer Comparison model provided funding to institutions that were judged to have satisfactorily closed the gap with peer benchmarked institutions.

12. Oklahoma¹²⁰

Oklahoma's higher education has had reductions in state appropriations in recent years; therefore, no funding formula has been used in the allocation process in the last few years. Oklahoma is currently developing a new performance-based funding model. An updated 2013 outcomes-based formula has recently been proposed but has yet to be implemented. If Oklahoma's senior institutions receive any new funding for FY2013, then the updated performance-driven formula will be used. The new model will incorporate the following factors:

- Campus completion plan in conjunction with the Complete College America (CCA) goals;
- Retention rates from 1st to 2nd year;
- Pell grant retention from 1st to 2nd year;
- 24 hours completion rate;
- Graduation rates;
- CCA degree target completion;
- Number of certificates/degrees conferred; and
- Program accreditation.

13. Rhode Island¹²¹

Since 2007, Rhode Island has experienced an annual decrease in funding for higher education. Rhode Island has never used a funding formula to appropriate state funds for its higher education. The state

¹¹⁸ Cody, Ken. Chancellor for Financial Affairs and Treasurer/CFO at University System of New Hampshire. Personal communication. May 2012.

¹¹⁹ Glatt, Laura. Vice Chancellor for Administration Affairs of North Dakota University System. Personal communication. May 2012.

Parmley, Kelli, Bell, A., et al. (2009). *State Budgeting For Higher Education In the United States - As Reported For Fiscal Year 2007*. http://www.sheeo.org/finance/Budgeting_For_Higher_Ed.pdf.

¹²⁰ Mauck, Sheri. Oklahoma Budget and Finance Oklahoma State Regents for Higher Education. Personal Communication. May 2012.

Oklahoma State Legislature. (2012). *Lawmakers Seek to Reform Higher Ed Funding*. http://www.okhouse.gov/okhousemedia/news_story.aspx?NewsID=4236

¹²¹ Trainer, Michael. Rhode Island Board of Governors for Higher Education. Personal communication. May 2012.

legislature decides the amount of funding, which reflects the economic and political climate of each year.

14. Utah¹²²

Utah does not use a specific funding formula for its higher education appropriations. The Utah state legislature determines funding amounts for Utah universities and community colleges using a “base budget plus” method, which factors in a cost of living allowance, such as employee salaries and fringe benefits, and tuition. The Utah Legislature has established “mission based funding” as a basis for higher education appropriations in Utah. Instead of funding institutions appropriation increases based solely on enrollment growth, mission-based funding will consider both enrollment growth and the strategic priorities for colleges and universities.¹²³

15. Vermont

Vermont does not use a funding formula for higher education institutions. Funding is determined annually on an ad-hoc basis at the discretion of the state.

16. Washington¹²⁴

Washington does not use a funding formula for higher education instead use a “base plus”. The plus for Washington’s community and technical college system is based a performance, which distributed some of the base based on achievement points. The Washington Higher Education Coordination Board was abolished in 2011, effective July 2012, and will be replaced by the Student Achievement Council. The Council’s responsibilities will include identifying budget priorities and the levels of funding necessary for major policy changes in higher education.

Washington incorporated performance-based funding for both its two-year and four-year public institutions through an appropriation act that required the state to withhold a small portion of the base appropriation from each institution in 1997. The withheld amount was distributed if institutions achieved performance targets. Four-year institutions’ targets included persistence, completion, faculty productivity, and graduation efficiency (credits completed versus credits need to graduate). Two-year institutions’ targets included transfer rates, course completions, wages of occupational training graduates, and graduation efficiency. The use of performance criteria for both types of institutions was then abandoned in 1999 due partly due to politics, but also due to several issues that have been found to contribute to the failure of performance-based funding across applicable states:¹²⁵

- Higher education’s lack of support for performance funding systems,
- Difficulty in meeting performance criteria,
- Insufficient attention to institutional diversity, and
- Incongruence between the goals of the legislature and the goals of the institutions.

¹²² Marshal, Darren. Audit and Financial Services of Utah System of Higher Education. Personal communication. May 2012.

¹²³ “State Strategies Vary Amid Budget Squeeze.” *Community College Week* February 20, 2012.

¹²⁴ Washington State Board for Community and Technical Colleges, “Student Achievement Initiative.” http://www.sbctc.ctc.edu/college/e_studentachievement.aspx

¹²⁵ Dougherty, Kevin and Rebecca Natow. “The Demise of Higher Education Performance Funding Systems in Three States.” *CCRC Working Paper No. 17*. May 2009.

In 2007, the Washington State Board for Community and Technical Colleges resurrected performance-based funding by allocating a portion of its institutions' budgets based on student success. The system rewards colleges when students reach various achievement points in their academic careers. One point is awarded each time a college student:

- Makes nationally recognized standardized test gains in math or in English language reading or listening as measured by pre- and post-testing or by earning a GED or high school diploma
- Passes a remedial math or English course with a qualifying grade to advance toward college-level work
- Earns the first 15 college-level credits
- Earns the first 30 college-level credits
- Completes the first 5 college-level math credits
- Earns a certificate backed by at least one year of college, earns a two-year degree or completes an apprenticeship

Each college will receive awards for improvements in student achievement measured by net gains in its total momentum points over the previous year. Prior to each academic year, Washington State Board for Community and Technical Colleges sets the dollar value per point based on the total dollars available for awards. (\$1,148,360 for 2011-12) The dollar value per point is set conservatively so that funds available should cover all projected rewards. There is no upper limit to the number of points that can be earned by a college. If funds available do not cover all earned rewards, the unfunded points will be banked for incentive rewards the following year. Once earned, the reward is added to the college's base budget.

Performance results

Between the 2006-07 baseline year and 2008-09, the first performance year, the colleges served 4% more students but increased student achievement by 19% with gains in all categories, including the largest increases in gaining college ready skills. In 2009-10, points again increased in all categories. Total achievement increased by 12 percent or 40,716 total points compared to student population growth of 1%. In 2010-11, completions increased by 17 percent over one year prior. College math points were the second highest increase (5 percent), a result, the system claims, of more attention being paid to both math and pre-college math.

17. West Virginia¹²⁶

In 2011, the West Virginia Commission on Higher Education approved a new funding formula for higher education; however, it has not yet been used by the Commission or West Virginia to distribute funding. In the past, West Virginia has funded higher education through peer-based funding models that drove the appropriation requests.

The approved new funding formula follows the trend of other formula states. Instruction is funded by multiplying student enrollment hours by a discipline-weighted matrix where more costly courses are

¹²⁶ Schumaker, Ashley. West Virginia Higher Education Policy Commission. Personal Communication. May 17, 2012. Financing West Virginia's Future: A Funding Model for Higher Education. WVHEPC Efficiencies Project. January 21, 2011. <https://www.wvhepc.org/efficiency>.

funded at a higher rate. However, the weighted matrix is also weighted higher for upper division courses, with the assertion that this rewards retention.¹²⁷ The weighted credit hours are then multiplied by a legislatively set rate based on average revenue per credit hour. The rate takes into account student-derived revenue, with the goal of moving to 50% state support and 50% student support.

The formula contains a component to maintain equity with peer institutions and another for performance funding. There are also incentives for increased bachelor degree production and increased enrollment of adults over the age of 25. The proposed appropriation addition is about \$8,000 per increased degree or increased student. In addition, the formula rewards institutions for course completion by measuring the ratio of credit hours completed to credit hours attempted. The proposed addition to appropriations is about \$14,000 for each percentage point above 70%.¹²⁸

18. Wisconsin¹²⁹

The State of Wisconsin allocates resources to the University System of Wisconsin using a “base plus” funding method. A base level of funding is established, and incremental changes are made based on funding for specific initiatives. The UW system must request funding for specific items, justify those requests, and use the new funds for the purposes requested. The new funding that is received is distributed in a manner that is consistent with how the funding was provided to the system. For example, with funding for high demand faculty, the increases are distributed based on each institution’s proportion of faculty within the UW System. Funding for particular programs, such as majors, goes only to the institutions that have those majors. Utilities funding is distributed based on previous expenditure of utilities (an indicator of need), plus funding to support expected increases due to new facilities at an institution.

The largest source of increased revenue in most years is for pay plan increases. That funding is distributed to institutions based either on actual cost (in the case of classified staff increases) or as a percentage of an established payroll base (for unclassified staff). The latter (calculated percentage) is the preferred method as it can be calculated earlier and provides institutions more certainty about the revenue available to them.

Annually, the Board of Regents passes institution-specific allocations in the form of block grants and may at that time decide to change how resources are allocated to the institutions.

There is no additional formal performance funding. The state asks each agency to provide performance measures with their budget requests each biennium, but does not provide additional resources based on that performance. In addition, the 2011-2013 Board of Regents budget tied their budget request to the “Wisconsin Growth Agenda”, which they focus on producing more graduates.¹³⁰

¹²⁷ Legislative Oversight Commission On Education Accountability Meeting Packet. September 13, 2011. P. 52.

¹²⁸ Task Force on Efficiencies, West Virginia Higher Education Policy Commission. *Financing West Virginia's Future: A Funding Model for Higher Education*.

¹²⁹ Harris, Freda. University of Wisconsin System. Personal Communication. April 25, 2012.

¹³⁰ The University of Wisconsin System. *2011-13 Biennial Operating Budget*. August 2010.

19. Wyoming^{131,132}

Wyoming funds higher education in the state budget via a University of Wyoming general fund block grant. Appropriation increases are informally, but not directly, tied to enrollment growth. The Community College Commission administrative budget and the state aid to college program is also appropriated as a lump sum that is based on funding parity with a group of comparator colleges from across the nation; however, it is distributed based on a formula that separates fixed costs (base) and variable costs that are tied to enrollment (plus). The model accounts for local support and allows specific requests from colleges for program funding related to state initiatives, such as economic development goals.

Wyoming has no performance-based criteria tied to funding besides requests for specific initiatives; however, the University of Wyoming, and the Community College Commission publish an annual report that details their performance on a wide variety of performance-based metrics.¹³³

The University of Wyoming retains and controls all student-derived fees. Student-derived fees are accounted for in the distribution of funds to community colleges from within the general appropriation to the Wyoming Community College Commission.

¹³¹ University of Wyoming. "The University's Funding and Response to State Funding Reduction." *Self-study*. http://www.uwyo.edu/accreditation/files/docs/selfstudy_chap10.pdf.

Barron, Joan. "Wyoming lawmakers scrutinize community college funding." *Wyoming Star-Tribune*. March 29, 2012

¹³² Wyoming Community College Commission. *Fiscal Handbook*.

¹³³ Wyoming Community College Commission. *Annual Report 2011*.

Appendix C: Narratives of States That Use a Hybrid (Formula/Non-Formula) Approach for Higher Education Funding

1. California (formula for CSU and CCC, non-formula for UC)¹³⁴

As mandated by the 1960 *California Master Plan for Higher Education*, California state higher education is comprised of three systems: the University of California (UC), California State University (CSU), and the California Community Colleges System (CCCS). Each system has its own board, and there are 72 local CCCS boards. The California Postsecondary Education Commission (CPEC), established in 1974, is responsible for statewide coordination and has an advisory role to the governor and the legislature. Each system has a separate funding procedure. Student-derived revenues are handled differently by each of the three systems.

CSU

Since 1993, CSU has used a formula based on FTE enrollment, where one FTE = 15 semester units. This is used to create a “base” budget for Instruction, which may change from year to year due to FTE targets, faculty salary requirements, and program needs. Academic Support, Student Services, Institutional Support, and Plant Operations are normally treated as “fixed” budgets and adjusted only in special situations. Operating expenses have in the past been tied to FTE enrollment, but recent reductions have not allowed this budget to grow with the enrollment target. California State University (CSU) campuses also retain control of student-derived revenues but the funds are accounted for through an appropriations process.

CCC

CCC funding is governed by Proposition 98, which sets K-14 funding in the state. This provides three formulas or “tests,” one or more of which must be used to set funding levels:

- Test 1 – Share of General Fund. Provides 39% of General Fund revenues.
- Test 2 – Growth in Per Capita Personal Income. Increases prior-year funding by growth in attendance and per capita personal income.
- Test 3 – Growth in General Fund Revenues. Increases prior-year funding by growth in attendance and per capita General Fund revenues.¹³⁵

¹³⁴ California Senate Bill No. 724 (2005). http://www.leginfo.ca.gov/pub/05-06/bill/sen/sb_0701-0750/sb_724_bill_20050922_chaptered.pdf.

California State Auditor. (2011). *University of California, July 2011 Report 2010 - 105*. Sacramento, CA.

Communication with Deborah Obley, UCOP.

Communication with staff member, CSU Media Office.

Legislative Analyst's Office. (2005). *Proposition 98 Primer*.

http://www.lao.ca.gov/2005/prop_98_primer/prop_98_primer_020805.htm.

San José State University, Academic Affairs Division. *Budget Allocations, Fiscal Year 2011/2012*.

Wandling, Tim. 2009. *Understanding Marginal Cost formula and its relationship to SSU budgeting*. Sonoma State University, CA.

¹³⁵ Legislative Analyst's Office. *Proposition 98 Primer*. 2005.

http://www.lao.ca.gov/2005/prop_98_primer/prop_98_primer_020805.htm.

Which test is used depends on the state's economic performance and the availability of General Fund revenues. Test 1 was last used in 1988-89; Test 2 is normally used in years when General Fund revenues have grown; and Test 3 is usually applied when General Fund revenues have decreased or have shown only slow growth. The California Legislature may restrict funds allocated under Proposition 98 if it so wishes. It may also, with a two-thirds vote, suspend Proposition 98 and provide any level of K-14 funding it wishes.

California Community Colleges are funded through state general fund appropriations, local property taxes, and a legislative-set student fee, which is deposited with the state. CCCS's student revenues are appropriated through the state legislature, and the general fund appropriation is offset by student revenues. CCCS's programs are funded through a program-based funding formula, which sets the target allocations. The state apportionment is calculated by the following formula:

$$\text{State apportionment} = \text{target allocation} - (\text{property tax revenue}) - (98\% \text{ of fees})^{136}$$

UC

UC has used a "base plus" system since the 1990s, both in the allocation of funds from the state to the UC system and from the UC system to the system's individual campuses. The UC system negotiates a new funding agreement with each governor. As of May 2012, the latest agreement with Governor Brown had not been finalized, but typical past metrics have included fulfilling UC's goal of admitting anyone in the top 12.5% of California high school graduates, graduation rates, persistence rates, and admission of community college transfers.

Since 2007, each individual campus of the University of California (UC) system retains the majority of tuition and fees paid by its students. All nonresident tuition is retained at the source campus. However, a current proposal by the UC Office of the President will enable campuses to retain nearly all revenues they generate.¹³⁷

2. Florida (formula for 2-year institutions, non-formula for 4-year institutions)¹³⁸

Florida has both a State University System, which governs senior institutions (four-year institutions), and a Division of Florida Colleges, which is responsible for community colleges (two-year institutions). Funding mechanisms differ for each.

Universities

The State University System prepares a budget, which is submitted to the Governor and the Florida Legislature. The Legislature then allocates funds to the system itself (not individual institutions). In 2004, Florida established a formula for the State University System which, although it did not change universities' existing base budgets, was designed to support university programs by calculating needs by level (lower, upper, Grad I, Grad II and Grad III) adjusted by three university groups. It included

¹³⁶ Murphy, Patrick J. *Financing California's Community Colleges*. Public Policy Institute of California 2004. P. 39.

¹³⁷ California State Auditor. "Appendix A: University funding sources and methods for budgeting funding to campuses." *University of California: July 2011 Report 2010-105*.

¹³⁸ Jones, Tim. Florida Board of Governors. Personal communication. May 2012.

Florida Board of Governors, *Funding Formula Recommendations 3-3-04* (Word document).

Florida Higher Education Coordinating Council. (2012). *Higher Education Coordinating Council 2012 Work Plan*. http://www.floridahighereducation.org/_doc/The-2012-HECC-Work-Plan-8.pdf.

components for research, public support, library staffing, university support, student financial aid, student services, academic advising, tuition waivers, remedial education, library resources, offsetting inflation, technology support/resources, branch campuses, regional campuses, the University of Florida's Institute of Food and Agricultural Sciences (IFAS), and health sciences. However, this formula has not been used since FY2007-08 due to the decline in available state revenue. Appropriations have been made in a "base plus" methodology, though the "plus" has been a minus. Student-derived revenues are authorized through the appropriations act, but are kept on campus.¹³⁹

An older performance-based funding formula was based on factors including overall degree completion and degree completion and employment of at-risk students (defined as racial/ethnic minorities, non-native English speakers and disabled). This provision was never implemented for senior institutions.¹⁴⁰ However, the Board of Governors has formed a working group that is expected to make recommendations for a new performance-based funding formula in the fall of 2012.

*College System*¹⁴¹

Florida's model for allocating funds within the Florida College System uses a unique standards based approach. Although full-time equivalent (student enrollment) is a critical factor in their funding model, a host of other factors that directly impact an institution's ability to offer a quality education that meets the needs of its students and communities are also considered. From the calculated funding need is subtracted legislatively-appropriated funding and anticipated student fee revenues, adjusted for legally-mandated waivers and exemptions, to arrive at the calculated increase in state support needed. Each college's proportional share of this "calculated unmet need" represents their share of any new funding appropriated for the system. The actual funding process remains base-plus, but the allocation process is based on the following formula:

- The Instruction component is calculated by the class size multiplied by credit hour load multiplied by facility salary rates.
- Instructional support is calculated as a percentage of the sum of the faculty salary component. The percentage varies among institutions.
- Academic support is calculated by multiplying the three-year average student FTE by the base academic support rate and then adding Educator Preparation Institute, supplement for small colleges, supplement for multi-campus colleges, and a technology refresh supplement.
- The library funding calculation is based on quantitative national standards for materials and staffing and the experience, analysis, and research of the College Center for Library Automation.
- The student services calculation is based on a fixed base with some variable costs dependent on institution.
- The institutional support calculation is based on a fixed base with some variable costs dependent on institution.
- The operations and maintenance support calculation is based on a fixed base with increased support for increased FTE students.
- A standardized student fee is deduced from the sum of the total need.

¹³⁹ State University System of Florida Board of Governors. *2012-2013 Allocation Summary and Workpapers: Education and General*. Page 11, 14, and http://www.flbog.edu/about/budget/allocation_summary.php

¹⁴⁰ Dougherty, Kevin J., Rebecca S. Natow, Rachel J Hare, and Blanca E. Vega. (2010). *The Political Origins of State-Level Performance Funding for Higher Education: The Cases of Florida, Illinois, Missouri, South Carolina, Tennessee, and Washington*. Community College Research Center Working Paper No. 22. Page 8.

¹⁴¹ Florida College System, Budget Office. *2012-2013 Resource Allocation Funding Model*.

The resulting “need” is compared across institutions’ current appropriations, and the “plus” portion of appropriation is allocated according to this comparison ratio.

The performance measures dropped by senior institutions in 1997 continue to remain in effect for community colleges; 1-2% of state funding for the Division of Florida Colleges is tied to these goals. Community colleges must submit a performance-based program budget, and good performance is rewarded by extra funding from the state, added to the existing base budget. Though this funding remains in status, it has not been applied in the past two budget cycles.¹⁴²

Table A.17. Higher education funding formulas in Florida.

Florida – Formula for community colleges	
Instructional Support	Class size multiplied by credit hour load multiplied by facility salary rates
Remedial Education	-
Operations and Maintenance	Fixed base with increased support for increased FTE students
Academic Support	Multiplying the three-year average student FTE by the base academic support rate and then adding Educator Preparation Institute, supplement for small colleges, supplement for multi-campus colleges, and a technology refresh supplement
Student Services	Fixed base with some variable costs dependent on institution
Institutional Support	Fixed base with some variable costs dependent on institution
Scholarships	-
Public Service	-
Research	-
Performance Criteria	-
Student-derived revenues	A standardized student fee is deducted from the sum of the total need.

3. **Hawai'i (non-formula base for 2-year institutions with performance funding formula, non-formula for 4-year institutions)¹⁴³**

Senior (4-year) institutions in Hawai'i are allocated base budget funding, and modifications to individual programs are considered by the legislature. If approved, the modifications are allocated as add-ons to the base budget. Salary increases are also negotiated separately with the legislature. Generally, distribution of funds at the university level is up to the University of Hawai'i system itself. Although the performance funding formula recommended by the Act 188 task force has been endorsed by the University of Hawai'i Board of Regents, it is not yet in effect for four-year institutions because the state has not provided the funding to implement it. However, the Board of Regents is committed to the performance-based concept and will implement the program should the legislature fund it in the future.

¹⁴² HCM Strategists. *Performance Funding in Indiana. An Analysis of Lessons from the Research and other State Models*. 2012. http://www.hcmstrategists.com/content/Indiana_PFReport2_8.2.11.pdf.

¹⁴³ Act 188 Task Force. (2011). *University of Hawai'i System Report*. Morton, John. University of Hawaii. Personal Communication. 2012.

Nevertheless, the performance funding formula is in effect for the University of Hawai'i community college system, which used it to implement approximately 3% of the base state funds in the last fiscal year. It must be noted, however, that the performance funding was paid for by American Recovery and Reinvestment Act (ARRA) restoration monies, and not "new" state funds.

The Act 188 Task Force recommended the following performance measures: degrees and certificates awarded, an overweight for degrees and certificates awarded to Native Hawaiian students, an overweight for degrees and certificates awarded to students in STEM fields, the number of low-income students participating in the Federal Pell program, and the number of transfers from the community colleges to the baccalaureate campuses. Each outcome is considered independently of the others. Each campus has differently weighted factors to reflect its own particular mission. A campus can only reach its full funding potential if it meets or exceeds the goals for each measure; any funds that are not distributed lapse to the general fund. The Task Force did not recommend a formula to cover enrollment, but rather that funds be set aside for future enrollment growth.

Student-derived revenues

Higher education in Hawai'i is organized under the unitary University of Hawai'i (UH) System, which manages all public graduate, undergraduate, and community college campuses in the state. The University of Hawai'i System is governed by a board of 15 regents appointed by the governor and acting through a President. The board controls both policy and management of the system, and student-derived revenues are deposited into state accounts from which they may later be withdrawn.

The board's control over tuition and student fees dates from the 1990s, when, during a time of recession, the state granted the UH System more control over its own finances. The board raised tuition considerably during the next decade. Because in Hawaii tuition and financial aid policies are linked, this resulted in more state investment in financial aid. It also resulted in more students being granted tuition waivers. Although authority over waivers was given to the president of the UH System, the president also had the authority to delegate this responsibility, with the result that in practice the individual campuses have some degree of autonomy in using them.

Because of the control over waivers, the campuses have some input into the system's financial procedures, although not total control of all student-derived revenues. Local input also comes through the public meetings the Board of Regents holds before all tuition adjustments. This must of course be considered in light of the fact that the UH System is highly centralized and serves a polity with a relatively small population by the standards of most U.S. states.¹⁴⁴

¹⁴⁴ Bell, Julie Davis, Blanco et al. *Integrating Higher Education Financial Aid and Financing Policy: Case Studies from the Changing Direction Technical Assistance States*. February 2008. University of Hawai'i Website: <https://www.hawaii.edu/>.

4. Idaho (Base plus where the plus is formula based)¹⁴⁵

Idaho starts the budgeting process by considering the prior year's funding and land grant endowment receipts. Each institution receives an amount equal to the previous year's base funding, and then adjustments are made to cover changes in compensation, benefits, enrollment growth, and new programs. Programs are assigned to one of four groups, each with different weights by category and level. An Enrollment Workload Adjustment is calculated for each institution as follows:

Step 1: ((total base budget) x 0.67)/3-year moving average of previous year's total credit hours weighted by program = amount per credit hour

Step 2: (amount per credit hour) x change from previous (that is, from last year's calculations) 3-year moving average = adjustment

Student derived revenue

Up until 2005, higher education institutions in Idaho were only allowed to charge resident students a "matriculation fee" to the institution at which they study, much like in Nevada. In 2005, a state law was passed allowing only Boise State University, Idaho State University, and Lewis-Clark State College to charge residents for tuition and to use the revenues generated to pay for instruction. In 2010, the Idaho Legislature passed an amendment allowing the University of Idaho to impose tuition and fees on all students enrolled.¹⁴⁶ The funds collected by institutions in the higher education system of Idaho generally must be deposited into designated state accounts, and the legislature must approve the expenditure of the funds.¹⁴⁷

5. Illinois (formula for 2-year institutions, non-formula for 4-year institutions)¹⁴⁸

Two-year institutions

Illinois community colleges are funded by grants, principally Base Operating Grants and Equalization Grants. Base Operating Grants are driven by enrolled credit hours in six categories (Baccalaureate,

¹⁴⁵ Coffman, Mitch. (December 12th, 2011). State Board of Education may look to performance-based funding to fix higher education equity problem. *Idaho reporter.com*. Retrieved from <http://www.idahoreporter.com/2011/state-board-of-education-may-look-to-performance-based-funding-to-fix-higher-education-equity-problem/>.

Coffman, Mitch. (December 1st, 2011). Committee told state has no clear definition of higher education funding equity levels. *Idaho reporter.com*. Retrieved from <http://www.idahoreporter.com/2011/committee-told-state-has-no-clear-definition-of-higher-education-funding-equity-levels/>.

Idaho State Board of Education. (2011). *Draft Minutes State Board of Education December 7-8, 2011*.

Idaho State Board of Education. (2006). *Governing Policies and Procedures*. http://www.boardofed.idaho.gov/policies/documents/policies/v/v_s_allocation_of_the_lump_sum_appropriation_02-06.pdf.

¹⁴⁶ The Idaho Legislature. Senate Joint Resolution 101. <http://www.legislature.idaho.gov/legislation/2009/SJR101.htm>.

¹⁴⁷ Bell, Julie Davis, Blanco et al. *Integrating Higher Education Financial Aid and Financing Policy: Case Studies from the Changing Direction Technical Assistance States*, February 2008. *Idaho State Board of Education Website*: <https://www.boardofed.idaho.gov/>.

¹⁴⁸ Matt Berry, Illinois Board of Higher Education. Personal Communication, May 2012.

Business, Technical, Health, Remedial, and Adult Education), and by square footage for operations and maintenance. When the state cannot meet the full funding target, the credit hour rate is adjusted downwards. Equalization Grants are designed to make sure that community colleges operating in districts with a limited tax base have the funds necessary to support basic operations. In recent years, Illinois has not been able to fully fund either the Base Operating Grant or the Equalization Grant.

Four-year institutions

Higher education funding in Illinois is appropriated annually by the General Assembly and allocated through direct operating support, indirect operating support, institutional grant programs, and student financial aid programs. Public higher education institutions receive most of their funding through direct operating support, most of which is unrestricted and can be used for various operating purposes. Specific operations funding is also appropriated for activities such as adult basic education, workforce preparation programs, and technical education.

Illinois' public four-year institutions each prepare a budget, which will typically include various factors including salary support, new facility operations and maintenance funding, increases in energy costs, and new program requests. The Illinois Board of Higher Education may make additional recommendations for these budgets, but the Governor and the General Assembly have the final say over actual funding levels. The allocation is determined using a "base plus" method.

After the Illinois Higher Education Finance Commission's 2010 report discussing performance-based funding as an option for the state, the Illinois House and Senate passed performance-based legislation in 2011, with the goal of introducing performance-based budgeting by fiscal year 2013.

Table A.18. Higher education funding formulas in Illinois.

Illinois – Formula for community colleges	
Instructional Support	Enrolled credit hours in six categories (Baccalaureate, Business, Technical, Health, Remedial, and Adult Education),
Remedial Education	-
Operations and Maintenance	Square footage
Academic Support	-
Student Services	-
Institutional Support	-
Scholarships	-
Public Service	-
Research	-
Performance Criteria	-
Student-derived revenues	-

6. Indiana^{149,150}

Indiana's higher education funding starts with a "base" with adjustments to the base being calculated by a formula, which has driven by enrollment. Enrollment numbers have been based on enrollment numbers on the last day of class.¹⁵¹ However, as reviewed below, Indiana began switching to a successfully completed course driver in 2009. In addition, Indiana funds workforce development outside the formal formula through a Workforce Development Incentive that funds non-credit coursework.

In 2003, Indiana added an incentive fund to reward the state's research universities for federal research funds awarded, and in 2007, performance-based funding was expanded to include all institutions. The formula provides incentives for an increase in the number of degrees, increase in on-time graduation rates, increase in transfer rates from two-year colleges to four-year colleges, types of degrees, degree completion by low-income students, and dual credit hours, as well as research grant incentives. The base funding based on enrollment remained intact in 2007; however, in 2009 10% of the enrollment-based funding was shifted to a performance-based system, based on the metric of successfully completed credit hours with a grade of at least a D-. In 2014, the enrollment component will shift to 100% completed credit hours.¹⁵²

In the beginning, only new money was allocated via a performance funding formula. However, in the 2011-2013 budget, 5% of base funding was allocated via the performance funding formula via the metrics displayed in Table A.4. In addition in 2012, the Indiana state budget was cut and performance criteria were used to distribute budget reductions. Institutions with better performance and lower costs received smaller cuts than those with higher costs and lower completion rates.¹⁵³ Institutions with positive performance results receive extra funding; however institutions with negative performance results are not penalized.

Table A.19. Higher education funding formulas in Indiana.

Indiana – Formula for all institutions	
Instructional Support	Enrollment driven. Course completion being phased-in.
Remedial Education	
Operations and Maintenance	
Academic Support	

¹⁴⁹ Indiana Commission for Higher Education. *Funding Public Higher Education in Indiana: Context, Method, Possibilities*. July 2, 2003. <http://www.in.gov/che/2429.htm>

Indiana Commission for Higher Education. *2011-13 CHE Higher Education Budget Recommendation*. [http://www.in.gov/che/files/2011-](http://www.in.gov/che/files/2011-13_CHE_Higher_Education_Budget_Recommendation_v3_Old_Calc_SSCH__12-14-10.pptx)

¹⁵⁰ HCM Strategists. *Performance Funding in Indiana: An Analysis of Lessons from the Research and Other State Models*. August 8, 2011. http://www.hcmstrategists.com/content/Indiana_PFReport2_8.2.11.pdf. HCM Strategists. *Indiana's Effort to Reward College for Performance*.

¹⁵¹ Crellin, Matthew, Darrell Aaron, David Mabe, and Courtney Wilk. *Catalyst for Completion: Performance-based Funding in Higher Education*. March 2011 New England Board of Higher Education.

¹⁵² Bautsch, Brenda and Ronald Williams. "Recommendation Nine: College Completion." *The College Completion Agenda State Policy Guide*. CollegeBoard Advocacy & Policy Center. 2010. http://completionagenda.collegeboard.org/sites/default/files/reports_pdf/Policy_Rec_Nine.pdf.

¹⁵³ Lederman, Doug. "Performance (De-)Funding." *Inside Higher Edu*. December 28, 2009 <http://www.insidehighered.com/news/2009/12/28/indiana>.

Student Services	
Institutional Support	
Public Service	
Scholarships	
Research	Separate initiative
Performance Criteria	<p>5% of base starting in 2011.</p> <ul style="list-style-type: none"> Total degree attainment change – 60% <ul style="list-style-type: none"> Low income degree attainment change – 15% On-time degree attainment change – 15% Change in overall degree attainment – 30% Total completion of credit hours – 25% <ul style="list-style-type: none"> Successful completion of credit hours – 18.7% Dual credit successful completion of credit hours – 5.5% Early college successful completion of credit hours – 0.8% Research incentive – 15%
Workforce Development	Workforce Development Incentive
Student-Derived Revenues	-

7. Kansas (formula for 2-year institutions, non-formula for 4-year institutions)¹⁵⁴

Four-year institutions

Senior (4-year) institutions of higher education in Kansas are governed by the Board of Regents, and the state uses a “base plus” method to fund these universities. University funding is allocated from state general funds to the Board of Regents, and is then distributed by the Board of Regents to individual institutions according to a formula uniquely negotiated by each institution with the Board of Regents.

Any new money distributed to an institution is based on compliance with performance agreements that the Kansas Board of Regents signs with each institution. Performance metrics are based on improvement. Although they must be aligned with Kansas’ Foresight 2020 plan, performance metrics are chosen by each institution to suit its own mission, and to help cover costs in institutions that have less ability to generate tuition revenues. Though the exact criteria differ from institution to institution, they address factors such as increasing diversity, improving student achievement test scores, aligning the higher education system and the needs of the Kansas economy, increasing institutional quality, and providing student services.¹⁵⁵ The amount available for performance funding depends on the institution’s agreement with the Board of Regents, and the distribution of new funds (although there have not been any for some years) also depends on performance.

¹⁵⁴ Duffy, Diane. Kansas Board of Regents. Personal communication. May 2012.

Kansas SENATE BILL No. 143

Duffy, Diana and Kelly Oliver. Staff Memo on Budgeting for Higher Education. September 21, 2011.

¹⁵⁵ Kansas Board of Regents. *2011 Performance Agreements*. <http://www.kansasregents.org/resources/PDF/1698-BoardDec2011PerformanceAgreements.pdf>.

Two-year institutions

Although the Board of Regents coordinates rather than governs two-year institutions, Community Colleges and Technical Schools must also negotiate a unique performance agreement aligned with the state's Foresight 2020 plan. Starting in FY2012-2013, they will be funded under an enrollment and cost model, which is still being developed.

8. Maryland (formula for Regional Higher Education Centers, non-formula for other institutions)¹⁵⁶

Maryland higher education funding generally follows a "base plus" system. A specific exception to this was the allocation of state funds from FY2007-2009 to subsidize enrollment growth. However, all Maryland Regional Higher Education Centers (RHECs) will be switching to a performance-based funding model beginning in FY 2014. The formula provides a base allocation of \$200,000 for each center, incentive funding for FTEs, lease funding for those institutions that lease space, and special funding to cover one-time or start-up costs. In 2010, the legislature mandated that total base funding for all RHECs be \$1.75 million in future years.

9. Montana (formula for 2-year institutions, non-formula for 4-year institutions)¹⁵⁷

Four-year institutions

Montana has not used a funding formula for state fund appropriations for its four-year institutions – Montana State University and the University of Montana, and their respective affiliates – for the past few years. The previous budget sessions have used a base budget concept where an inflation factor was added to the expenditures made in the base budget.

Two-year institutions

Montana's three two-year institutions, namely Dawson College, Miles City College, and Flathead Valley College, have a funding formula defined by state law. Since 1981, the general fund appropriation for Montana community colleges has been determined by multiplying three factors: 1) the cost of education per FTE student, 2) annual FTE student enrollment projections, and 3) the state percent share of funding. For a more accurate estimation of the cost of education (COE), Montana recalibrates the average cost of education every two years based on average figures across the community colleges. The updated COE is used to calculate fixed/variable cost of education. The variable cost of education per student, which is the total variable costs for the base year divided by the actual FTE students, is multiplied by the aggregated FTE count of three colleges, and then the fixed cost of education is added to this product. The product of the first part of the calculation is finally multiplied by the state percent share, which is based on the legislature's public policy decisions, to determine the level of the state general fund for Montana community colleges.¹⁵⁸

¹⁵⁶ Maryland House Bill 1228 (2012). <http://mlis.state.md.us/2012rs/bills/hb/hb1228f.pdf>.

¹⁵⁷ Houser, Frieda, Director of Accounting & Budgeting at Montana University System. Personal communication. May 2012.

Montana State University. (2010). *Perf Based Funding*. http://techsci.msun.edu/strizich/perf_based_funding.htm.

¹⁵⁸ Montana Legislature. *Funding Formula Review Work Plan Item*. http://leg.mt.gov/content/publications/fiscal/subcommittees/PEPB/2007_interim/Funding_Formula_Discussion.pdf.

10. New Jersey (formula for 2-year institutions, non-formula for 4-year institutions)¹⁵⁹

Four-year institutions

Currently, there is no funding formula used to allocate funding to New Jersey's four-year institutions. Each four-year institution requests an amount it needs for operations and instructions, and the New Jersey Legislature and Governor make the final decision on appropriations.

Two-year institutions

Funding for New Jersey Community Colleges is based on a funding formula containing four components: Foundation Aid, Access Aid, Non-Credit Aid, and Differential Group funding.¹⁶⁰

- Foundation Aid is the total foundation aid for a given fiscal year, which is equivalent to the prior year's aid level plus an adjustment based on the change in the state operating aid. Foundation Aid is maintained at a ratio of approximately 28% of the total aid.
- Access Aid is a fixed amount of approximately \$10 million that is distributed to all 19 New Jersey community colleges.
- Non-Credit Aid is another fixed amount of around \$6 million that is distributed to the 19 New Jersey community colleges.
- Differential Group Funding is determined by subtracting total Foundation Aid, Access Aid and Non-Credit Aid from the total state operating aid for a given fiscal year. Differential funding is allocated based on audited credit hour enrollments. The base rate for each institution is determined by dividing the total number of credit hours for all institutions by the total amount of differential funding, and then the base rate is applied against each institution's credit hours to determine the level of its differential funding.

11. New Mexico¹⁶¹ (base plus with 5% base and new funding be allocated via formula)

New Mexico's Higher Education Department (HED) implemented a new funding formula for fiscal year 2013 as required by legislative action in 2011. The new funding formula is used for calculating workload and funding needs for the budget recommendation submitted to the executive and legislative branches. The State of New Mexico uses three separate funding formulas for research universities, regional or comprehensive universities, and two-year colleges to reflect the mission differentiation of each type of institution. This formula is a "base plus" model that defines the base as each institution's fiscal year 2012 instruction and general appropriations adjusted for utility costs. Five percent of the total base will

¹⁵⁹ New Jersey Higher Education Task Force. (2010). *Report of the Governor's Task Force on Higher Education*. <http://www.state.nj.us/highereducation/documents/GovernorsHETaskForceReport.pdf>.

¹⁶⁰ Lam, Linda E. *New Jersey Community College Funding Formula*. Online.

¹⁶¹ New Mexico Higher Education Department. *Educating Tomorrow's Workforce: New Mexico's Higher Education Funding Formula for Fiscal Year 2013*. October 14, 2011. http://www.nmsu.edu/~budget/PDF%20Files/HED_Ed_Funding_Formula_FY2013.pdf.

Russell, Brigitte, New Mexico Higher Education Department. Personal communication. May 2012.

New Mexico Higher Education Department. (2011). *Educating Tomorrow's Workforce: New Mexico's Higher Education Funding Formula for Fiscal Year 2013*.

https://www.nmsu.edu/~budget/PDF%20Files/HED_Ed_Funding_Formula_FY2013.pdf.

New Mexico Legislature. (2011). *LFC Hearing Brief, June 17th 2011*.

<http://www.nmlegis.gov/lcs/lfc/lfcdocs/Higher%20Education%20Funding%20and%20State%20Lessons%20on%20Funding%20to%20Outcomes.pdf>.

be calculated by output measures. In addition, any new funding allocated to the system will be allocated by the following formulas.

Research Universities

New Mexico's formula for *research universities* is based on completed student credit hours for all courses for which a student received a letter grade, pass-fail grade, incomplete, or audit complete. These student credit hours are multiplied by the following credit hour cost matrix:

Formula Cost Factors			
Tier	Lower	Upper	Graduate
1	\$153.67	\$313.77	\$655.42
2	\$219.53	\$479.73	\$894.14
3	\$341.49	\$548.17	\$1,417.10

There is an additional funding factor based upon the total number of undergraduate and graduate degrees and postgraduate certificates awarded by each institution, which are multiplied by the following cost matrix:

Tier	Bach Degree	Master Degree	Doctorate	1st Prof	Post Bach Cert	Post MA Cert
1	\$33,000	\$24,434	\$80,727	\$80,727	\$5,809	\$14,306
2	\$47,623	\$35,261	\$116,499	\$116,499	\$8,383	\$20,645
3	\$69,792	\$51,675	\$170,732	\$170,732	\$12,286	\$30,255

For fiscal year 2013, this funding factor is 2% of the total cost of generating the degree produced at each institution. Degrees and certificates in STEM fields are an additional funding factor that is funded at 3% of the total cost to produce degrees. The funding formula also includes a factor for at-risk student degrees (defined as students whose expected family contribution would make them eligible for Pell grants). This factor is funded at 3% of the total cost to produce degrees. Currently the interim committee is looking at expanding the formula to include sector-specific formula factors, such as a research factor, a quality factor, a progress factor, and a factor that rewards success of transfer students.

Comprehensive universities

New Mexico's *comprehensive universities* are regional universities that produce master's degree and bachelor's degrees. A few also produce associate's degrees and certificates. The funding formula is identical to that for research universities, except that comprehensive universities' completed student credit hours also include developmental, remedial, or vocational/technical courses, which research universities do not offer.

Community colleges

Community colleges provide vocational and technical education, general academic preparation leading to associate's degrees and certificates, remedial education, and adult basic education. The community college funding formula includes completed student credit hours, number of degrees and postgraduate certificates awarded, workforce needs, and degrees awarded to at-risk students. HED hopes to add a transfer factor for community colleges in the future so that they may be rewarded when students transfer to 4-year institutions, rather than having their efforts effectively credited to senior institutions.

Additionally, Land Grant Permanent Fund monies may be distributed (only) to four-year and special schools according to statute mechanisms. The distribution mechanism for performance-based funding has not yet been determined, although a "hold harmless" clause will be in effect for the first year (only) to ensure that no institution can gain or lose more than 2% of the previous year's funding.

Student-derived revenues

Individual institutions in New Mexico have traditionally had, and retain under the 2010 plan, the authority to keep student tuition and fee revenues and spend them at their own initiative. Tuition rates are set by the governing boards of individual institutions, with no explicit state-level restrictions or incentives to minimize increases. This institutional autonomy is somewhat counter-balanced by the HED's authority to review and approve budgets, and to place institutions that fail audits on a "fiscal watch." An institution on this probationary status must submit a plan to the HED to explain how it will address the audit findings.

12. New York (formula for 2-year institutions, non-formula for 4-year institutions)¹⁶²

Two-year institutions

New York's two-year colleges receive approximately 40% of their operational funding from the State, about 27% from their local community, and about 33% from student tuition.¹⁶³ For the 2011-2012 fiscal year, the statutory formula for full opportunity colleges¹⁶⁴ was determined by choosing the lowest of the following: 1) two-fifths (40%) of the net operating budget of the college, as approved by the State University trustees; 2) two-fifths (40%) of the net operating costs of the college; or 3) the combined figure of (a) the total of the budgeted or actual number (whichever is less) of FTE students enrolled in programs eligible for State financial assistance multiplied by \$2,122 AND (b) up to one-half (50%) of rental costs for physical space. For non-opportunity colleges, the statutory formula was determined by choosing the lowest of the following: 1) one third (33%) of the net operating budget of the college, as approved by the State University trustees; 2) one third (33%) of the net operating costs of the college; or 3) the combined figure of (a) the total of the budgeted or actual number (whichever is less) of FTE students enrolled in programs eligible for State financial assistance multiplied by \$1,516 AND (b) up to one-half (50%) of rental costs for physical space.

Four-year institutions

The State University of New York (SUNY) used a funding formula methodology from 1998-99 through 2008-09, but has used incremental funding since that time. SUNY is currently developing a new formula, which will be somewhat similar to the previous one, comprising enrollment, research, and other components. The details of a new formula have not been settled upon, but it is scheduled to be implemented in 2013-14.¹⁶⁵ The performance-funding portion of the model is being developed separately and will also take effect in 2013-14. The funding amount prior to 2008 was determined through the Budget Allocation Process (BAP).¹⁶⁶

¹⁶² Bultman, Matthew. (February 26, 2012). SUNY funding changes concern Potsdam College Council. *Watertowndailytimes.com*. Retrieved from <http://www.watertowndailytimes.com/article/20120226/NEWS05/702269853>

Gilman, Wendy. SUNY System Administration. Personal Communication. May 2012.

Potent, Jacob D. (January 25, 2011). SUNY still looking for autonomy. *The Legislative Gazette*. Retrieved from <http://content.yudu.com/Library/A1qsg7/TheLegislativeGazett/resources/3.htm>.

¹⁶³ The State University of New York. *Assembly Standing Committee on Higher Education Public Hearing*. <http://www.suny.edu/govtRelations/state/pdf/Matonak.pdf>.

¹⁶⁴ A community college that essentially agreed to an open-door admission policy for residents in their sponsor area with a recent high school diploma or who were veterans.

¹⁶⁵ Gilman, Wendy. *The State University of New York: Overview of the University Budget Process*.

¹⁶⁶ Gilman, Wendy. *State University of New York: Resource Allocation State Operated/Funded Campuses*.

Student-derived revenues

Historically, in New York, the Board of Regents and the legislature have exercised a great deal of control over the state's public institutions of higher education. SUNY campuses are either state-operated, or, in the case of community colleges, administered by local governments under SUNY's supervision. CUNY, created in 1961 from a backbone of existing institutions, was originally tuition-free for NYC residents, and had traditionally operated more as a community of schools than a unified system. In recent years the CUNY Board of Trustees has managed to exert more control over the system as a whole. Until recently, tuition revenues for SUNY and CUNY were either deposited into separate state accounts or were appropriated as a direct offset of the state general fund, and appropriation authority from the Governor and legislature was required in order for the systems to expend deposited funds.

The *Public Higher Education Empowerment and Innovation Act* proposed in 2010 represented an attempt to change this system, allowing both SUNY and CUNY institutions to set their own tuition levels and keep all tuition revenues. Supporters of the bill hoped that this would help the systems avoid sudden increases in tuition that have become all too common in times of economic stress. It was not enacted, but in August 2011, Governor Cuomo signed the NYSUNY 2020 legislation, which, amongst other provisions, provides that SUNY and CUNY campuses may follow a graduated plan for tuition increases (\$300 per year for 5 years) and that tuition revenues will be returned to individual campuses. Unlike the *Public Higher Education Empowerment and Innovation Act*, NYSUNY 2020 requires legislative approval for tuition increases and sets a required level of state funding (no less than that of the current year).

There was significant opposition to both acts, including student protests. Opponents' concerns included that state funding would decrease precisely because tuition levels increased, and that these policies would lead by degrees to the privatization of public institutions. Others argue that state contributions have been declining for some years anyway, and that the old system, where all campus-created revenue went back to the state general fund, allowed legislators to treat funds raised by the systems and individual institutions as if they were public monies.¹⁶⁷

14. North Carolina¹⁶⁸

Four-year Institutions

North Carolina employs a hybrid-approach to higher education funding. Appropriations are based on the previous year's appropriation plus an increase based on enrollment predictions. Starting in 2011, institutions were only allowed to project growth if they had at least an 80% retention rate (in general). The increase is calculated by a formula called Student Credit Hour (SCH) Funding Model. The SCH Funding Model contains five basic components: Instructional Salary Costs, Other Academic Costs, Library, General Institutional Support (GIS), and Deductions based on expected tuition revenue.

¹⁶⁷ *About SUNY 2020*: <http://www.stonybrook.edu/sb/nysuny/overview.html>. *New York Governor's SUNY and CUNY Legislation*: <http://agb.org/ingram/policy/new-york-governor%E2%80%99s-suny-and-cuny-legislation>. *New York Office of Higher Education*: <http://www.highered.nysed.gov/swp/#HigherEdinNY>. *SHEEO 2010-2011 State Tuition, Fees, and Financial Assistance Survey 2010-2011*: <http://www.sheeo.org/finance/tuit/>.

¹⁶⁸ University of North Carolina. *Semester Credit Hour Enrollment Change Funding Model*. 2010. http://www.wcu.edu/WebFiles/PDFs/Enrollment_Manual_Oct_2010.pdf.

Ginger Burks, University of North Carolina General Administration. May 2012. Personal Communication.

The Salary Costs are calculated by transforming projected student credit hours into faculty positions through the use of a discipline and level matrix based on the National Study of Instructional Cost and Productivity (Delaware Data)¹⁶⁹ along with the University of North Carolina System average class sizes. In addition, the resulting equivalent faculty positions can be increased for each institution based on their service to disadvantaged populations, diseconomies of scale, have high degree efficiencies, and have high retention rates. The resulting faculty positions are multiplied by annual salary rate specific to each institution. This number is then multiplied by an estimated instructional cost factor rate of 45% to determine funding for other instructional costs including fringe benefits, salaries of faculty members and other personnel, office operating expenses, travel, equipment, etc.

The combined amount of salary components and other instructional costs, called the Total Academic Requirements, forms the basis for calculating the remaining components. Library funding is determined by multiplying the Total Academic Requirements by the library-funding factor of 11.48%. The General Institutional Support, designed to calculate funding for academic support services, student services, institutional support, campus administration, and physical plant operations, is given a factor of 54.05%, which is then multiplied by the total academic requirements to determine a funding amount.

The sum of the above components is the funding required for the increase in enrollment. From this total, the tuition revenue is subtracted out to equal the appropriations request.

Two-year Institutions

Each two-year institution in North Carolina receives an instructional fixed-base allocation (approximately \$373,000 in FY2011-12) from the State Board, in addition to the remainder of funds on a weighted FTE budget (average FTE enrollment of the past three years) categorized into three funding tiers and the type of discipline.¹⁷⁰ Each college is allocated \$3,608 for each FTE in Tier 1 courses and \$3,137 for each FTE in Tier 2 courses. For continuing education (occupational extension) instruction, a base allocation of \$62,137 is given to each college along with \$3,137 for each FTE in Tier 2 courses and \$2,666 for each FTE in Tier 3 courses. The instructional resources allotment provides funds to each college for library materials through a base allocation of \$25,000 and the remaining balance is based on each college's weighted library FTE (L/FTE). The L/FTE is calculated by applying different category weights, as determined by different types of education (such as college transfer and general education FTE, technical education FTE and occupational extension FTE), to the actual FTE of the preceding year, and adding these products to obtain a sum for each college. Colleges also receive \$4.62 per weighted L/FTE above 1,000 L/FTE.

Table A.20. Higher education funding formulas in North Carolina.

North Carolina – Formula for four-year institutions	
Instructional Support	Projected new student credit hours transformed into faculty position by a level and discipline matrix multiplied by average faculty salary at each institution. The result is adjusted for different missions and then multiplied by 145%.
Remedial Education	-
Academic Support	Library: 11.48% of Instructional Support

¹⁶⁹ This is a member-only study located at <http://www.udel.edu/IR/cost/>.

¹⁷⁰ North Carolina Community Colleges. *State Aid Allocations and Budget Policies FY 2011-12*. 2011.

Operations and Maintenance	54.05% of Instructional Support
Student Services	
Institutional Support	
Research	
Public Service	-
Scholarships	-
Performance Criteria	Incorporation in enrollment increase; \$1 million requested, but not implemented.
Workforce Development	-
Student-Derived Revenues	Tuition is subtracted out from enrollment increase request.

14. South Dakota (formula for federally-funded technical institutions, non-formula for other institutions)

In 1998, the South Dakota Board of Regents dropped its enrollment-based funding formula. Therefore, there is no official funding formula for higher education in South Dakota. However, according to Paul Gough, Director of Department of Policy and Planning, South Dakota universities and colleges depend on student enrollment information to determine internal annual adjustments and present budget requests to the state.¹⁷¹ There is a mainly enrollment-driven formula in use for technical schools, but these are federally funded and are locally governed by the local Boards of K-12 Education.

Student-derived revenues

South Dakota is unusual in that it is the only state, and the only polity other than Washington, DC, within the continental United States, in which tuition revenues are retained at the state level under the direct control of a state-level governing board, the South Dakota Board of Regents. Tuition from all institutions is collected in a central depository. The Board of Regents reserves some of the collected revenues for capital maintenance, repair, and new construction (20% in 2010). As of 2010, funds from central deposits are “earned” back by institutions as they achieve certain targets set by the Board. Individual institutions have the authority to retain revenues from certain Board-approved fees, and also from “charges” that are levied for elective services (as opposed to those mandated by the school).

¹⁷¹ Gough, Paul. Director of Policy and Planning at South Dakota Board of Regents. Personal communication. May 2012.

Lowery, Nick. “Missing formula increases tuition.” *The SDSU Collegian*. March 14, 2012.
<http://www.sdsu.collegian.com/2012/03/14/missing-formula-increases-tuition-3/>

Appendix D: 2011 Program/Level Weighting matrix for General Academic Institutions¹⁷²

Texas.

Fund Code	Discipline	Level	Relative Weight
1	Liberal Arts	Undergraduate Lower Level	1.00
2	Science	Undergraduate Lower Level	1.75
3	Fine Arts	Undergraduate Lower Level	1.42
4	Teacher Education	Undergraduate Lower Level	1.41
5	Agriculture	Undergraduate Lower Level	2.02
6	Engineering	Undergraduate Lower Level	2.42
7	Home Economics	Undergraduate Lower Level	1.03
8	Law	Undergraduate Lower Level	-
9	Social Service	Undergraduate Lower Level	1.88
10	Library Science	Undergraduate Lower Level	1.44
11	Veterinary Science	Undergraduate Lower Level	-
12	Vocational Training	Undergraduate Lower Level	1.42
13	Physical Training	Undergraduate Lower Level	1.38
14	Health Services	Undergraduate Lower Level	1.19
15	Pharmacy	Undergraduate Lower Level	1.48
16	Business Administration	Undergraduate Lower Level	1.11
17	Optometry	Undergraduate Lower Level	-
18	Teacher Ed-Practice Teaching	Undergraduate Lower Level	1.60
19	Technology	Undergraduate Lower Level	2.10
20	Nursing	Undergraduate Lower Level	2.03
1	Liberal Arts	Undergraduate Upper Level	1.69
2	Science	Undergraduate Upper Level	2.93
3	Fine Arts	Undergraduate Upper Level	2.33
4	Teacher Education	Undergraduate Upper Level	1.74
5	Agriculture	Undergraduate Upper Level	2.54
6	Engineering	Undergraduate Upper Level	3.70
7	Home Economics	Undergraduate Upper Level	1.66
8	Law	Undergraduate Upper Level	-
9	Social Service	Undergraduate Upper Level	2.09
10	Library Science	Undergraduate Upper Level	1.12
11	Veterinary Science	Undergraduate Upper Level	-
12	Vocational Training	Undergraduate Upper Level	1.89
13	Physical Training	Undergraduate Upper Level	1.18
14	Health Services	Undergraduate Upper Level	1.81
15	Pharmacy	Undergraduate Upper Level	5.02

¹⁷² Texas Higher Education Coordinating Board – General Academic Institution – Program Funding Estimation Tool.
www.theccb.state.tx.us/reports/Docfetch.cfm?Docid=2291&Format=XLS

16	Business Administration	Undergraduate Upper Level	1.71
17	Optometry	Undergraduate Upper Level	-
18	Teacher Ed-Practice Teaching	Undergraduate Upper Level	1.74
19	Technology	Undergraduate Upper Level	2.45
20	Nursing	Undergraduate Upper Level	2.21
1	Liberal Arts	Masters	3.91
2	Science	Masters	7.97
3	Fine Arts	Masters	5.41
4	Teacher Education	Masters	2.27
5	Agriculture	Masters	7.13
6	Engineering	Masters	7.46
7	Home Economics	Masters	2.89
8	Law	Masters	-
9	Social Service	Masters	2.98
10	Library Science	Masters	2.69
11	Veterinary Science	Masters	-
12	Vocational Training	Masters	-
13	Physical Training	Masters	-
14	Health Services	Masters	3.15
15	Pharmacy	Masters	23.28
16	Business Administration	Masters	3.16
17	Optometry	Masters	5.46
18	Teacher Ed-Practice Teaching	Masters	-
19	Technology	Masters	3.87
20	Nursing	Masters	4.08
1	Liberal Arts	Doctorate	9.23
2	Science	Doctorate	21.08
3	Fine Arts	Doctorate	7.22
4	Teacher Education	Doctorate	7.37
5	Agriculture	Doctorate	9.62
6	Engineering	Doctorate	16.03
7	Home Economics	Doctorate	7.24
8	Law	Doctorate	-
9	Social Service	Doctorate	14.70
10	Library Science	Doctorate	9.64
11	Veterinary Science	Doctorate	-
12	Vocational Training	Doctorate	-
13	Physical Training	Doctorate	-
14	Health Services	Doctorate	9.75
15	Pharmacy	Doctorate	34.24
16	Business Administration	Doctorate	23.34
17	Optometry	Doctorate	19.12
18	Teacher Ed-Practice Teaching	Doctorate	-
19	Technology	Doctorate	2.84
20	Nursing	Doctorate	9.25

1	Liberal Arts	Special Professional	-
2	Science	Special Professional	-
3	Fine Arts	Special Professional	-
4	Teacher Education	Special Professional	-
5	Agriculture	Special Professional	-
6	Engineering	Special Professional	-
7	Home Economics	Special Professional	-
8	Law	Special Professional	4.15
9	Social Service	Special Professional	-
10	Library Science	Special Professional	-
11	Veterinary Science	Special Professional	20.04
12	Vocational Training	Special Professional	-
13	Physical Training	Special Professional	-
14	Health Services	Special Professional	2.60
15	Pharmacy	Special Professional	3.97
16	Business Administration	Special Professional	9.00
17	Optometry	Special Professional	7.00
18	Teacher Ed-Practice Teaching	Special Professional	-
19	Technology	Special Professional	-
20	Nursing	Special Professional	-

NSH proposed formula weights

APPENDIX A - DISCIPLINE CLUSTERS AND WEIGHTS

Discipline Cluster	Lower Division	Upper Division	Master's	Doctoral
Liberal Arts, Math, Social Science, Languages, Other	1.0	2.0	4.0	5.0
05. Area, Ethnic, Cultural & Gender Studies	1.0	2.0	4.0	5.0
09. Communication, Journalism & related programs	1.0	2.0	4.0	5.0
16. Foreign Languages, Literature and Linguistics	1.0	2.0	4.0	5.0
19. Family & Consumer Sciences/Human Sciences	1.0	2.0	4.0	5.0
23. English Language & Literature/Letters*	1.0	2.0	4.0	5.0
24. Liberal Arts & Sciences, General Studies	1.0	2.0	4.0	5.0
25. Library Sciences	1.0	2.0	4.0	5.0
27. Mathematics & Statistics*	1.0	2.0	4.0	5.0
28. Reserve Officer Training Corps	1.0	2.0	4.0	5.0
29. Military Technologies	1.0	2.0	4.0	5.0
30. Multi/Interdisciplinary Studies	1.0	2.0	4.0	5.0
38. Philosophy & Religious Studies	1.0	2.0	4.0	5.0
42. Psychology & Applied Psychology	1.0	2.0	4.0	5.0
45. Social Sciences	1.0	2.0	4.0	5.0
54. History	1.0	2.0	4.0	5.0
99. Honors Curriculum and other	1.0	2.0	4.0	5.0
Basic Skills	1.5	n/a	n/a	n/a
32. Basic Skills				
Business	1.0	2.0	4.0	6.0
44. Public Administration & Social Services	1.0	2.0	4.0	6.0
52. Business Mgmt, Marketing & related services	1.0	2.0	4.0	6.0
Education	1.5	2.0	2.5	5.0
13. Education	1.5	2.0	2.5	5.0
Services	1.5	2.0	3.0	4.0
31. Parks, Recreation, Leisure & Fitness Studies	1.5	2.0	3.0	4.0
12. Personal & Culinary Services	1.5	2.0	3.0	4.0
43. Security & Protective Services	1.5	2.0	3.0	4.0
Visual and Performing Arts	1.5	2.5	5.0	5.0
50. Visual and Performing Arts	1.5	2.5	5.0	5.0
Trades/Tech	2.0	2.5	n/a	n/a
46. Construction Trades	2.0	2.5	n/a	n/a
47. Mechanic Repair Technologies/Technicians	2.0	2.5	n/a	n/a
48. Precision Production	2.0	2.5	n/a	n/a
49. Transportation & Materials Moving	2.0	2.5	n/a	n/a
Sciences	2.0	3.0	5.0	8.0
01. Agriculture, Agriculture operations & related	2.0	3.0	5.0	8.0
03. Natural Resources & Conservation	2.0	3.0	5.0	8.0
11. Computer & Information Sciences	2.0	3.0	5.0	8.0
26. Biological & Biomedical Sciences	2.0	3.0	5.0	8.0
40. Physical Sciences	2.0	3.0	5.0	8.0
Law	2.0	2.0	4.0	4.0
22. Legal Professions and Studies	2.0	2.0	4.0	4.0
Engineering/Architecture	2.0	3.0	5.0	8.0
04. Architecture	2.0	3.0	5.0	8.0
14. Engineering	2.0	3.0	5.0	8.0
15. Engineering Technologies/Technicians	2.0	3.0	5.0	8.0
Health	2.0	2.0	5.0	6.0
51. Nursing, Allied Health, Health Professions	2.0	2.0	5.0	6.0

*includes remedial courses at the colleges only

Appendix E: States that include performance related components in higher education funding.

	Completion	Progress	Remedial	At-risk	Research	Employment/ED	Other
Florida -Two year	Degrees			Degree completion		At-risk students	
Hawaii -Two year	Degrees & certificates Transfers	Credit completion		Number Degree & certificate completion		STEM degrees & certificates	
Illinois -2 year	Degrees & certificates Transfers	Remedial & adult		Degree & certificate Completion			
Indiana	Degrees	Credit completion On-time degrees		Low income degrees			
Kansas -Individual contracts				Increased diversity		ED alignment	Test scores National rankings Student services
Louisiana		Course completion			Research	STEM & health degrees	
New Mexico	Degrees & certificates	Credit completion		Degrees & certificates		STEM & health degrees & certificates	
Ohio	Degrees	Credit completion		Degree completion		STEM degrees	
Oklahoma	Degrees & certificates	Course completion Retention					
Pennsylvania -4 year		Course completion					Self-developed criteria
Tennessee -4 & 2 year	Degrees & certificates 12 hour transfers	Student progress					

	Completion	Progress	Remedial	At-risk	Research	Employment/ED	Other
Tennessee -4 year only		6 year graduation			Research & service		
Tennessee -2 year only	Degrees & certificates		Remedial success			Job placement Workforce training	
Texas		Basic skill gains		Degrees		Degrees for critical fields	
Washington-2 year only	Degrees & certificates	Pre-college writing and math 15 first year credits 30 credits College level math				Apprentice training	

Appendix F: Matrix of States' Higher Education Funding formula components

This table is a generalization of complex and varying formulas. Please see individual state narratives and tables in the previous appendices.

State	Type of Institution	Formula currently in use, or will definitely be implemented	Instruction	O&M/Physical Plant	Academic Support	Library Support	Student Services	Remedial Instruction	Research	Institutional Support	Public Service	Scholarships
Alabama	Senior Institutions	Yes	credit hours	square footage; cost	credit hours	credit hours	Headcount	115% weight on credit hours	credit hours plus sponsored research amt	credit hours	credit hours	
Alabama	Community Colleges	Yes	FTE enrollment									
Alabama	Technical Colleges	Yes	FTE enrollment									
Arizona	Senior Institutions	In law, but not been used	credit hours									
Arizona	Community Colleges	Yes	FTE enrollment									
Arkansas	Universities	Yes	credit hours	space prediction (credit hours, etc.)		credit hours			graduate enrollment	credit hours	credit hours	
Arkansas	Community Colleges	Yes	credit hours	space prediction (credit hours, etc.)	credit hours		FTE enrollment and headcount			FTE enrollment		
California	UC	No										
California	CalState	Yes	credit hours									
California	CCC	Yes										
Connecticut	Senior Institutions	Yes										X
Florida	Senior Institutions	No										
Florida	Community Colleges	Yes	enrollment	square footage; cost; enrollment	enrollment	enrollment	enrollment	success		enrollment		
Georgia	4-year Institutions	Yes	credit hours	square footage of instructional space	credit hours	credit hours	credit hours		credit hours of gradates	credit hours	credit hours	
Hawai'i	Community Colleges	Yes										

State	Type of Institution	Formula currently in use, or will definitely be implemented	Instruction	O&M/Physical Plant	Academic Support	Library Support	Student Services	Remedial Instruction	Research	Institutional Support	Public Service	Scholarships
Idaho	2 and 4-year Institutions Community Colleges	Yes	enrollment									
Illinois	Community Colleges	Yes	credit hours	square footage				enrollment				
Indiana	2 and 4-year Institutions	Yes	enrollment and successfully completed credit hours									
Kansas	Senior Institutions	No										
Kansas	Community Colleges**	Yes	enrollment									
Louisiana	2 and 4-year Institutions	Yes	completed credit hours	square footage based on instruction space	completed credit hours							
Maryland	Regional Higher Education Centers	Yes	enrollment									
Massachusetts	2 and 4-year Institutions	No	enrollment	square footage; cost, enrollment	enrollment		enrollment		enrollment	enrollment		
Minnesota	2 and 4-year Institutions	Yes	enrollment	square footage	enrollment	enrollment	base + enrollment		enrollment		enrollment	
Mississippi	Senior Institutions	Yes	credit hours	square footage and enrollment								
Mississippi	Community Colleges	Yes										
Montana	Community Colleges	Yes	enrollment									
New Jersey	Community Colleges	Yes	credit hours									
New Mexico	2 and 4-year Institutions	Yes	credit hours, degrees produced									
New York	Community Colleges	Yes										
North Carolina	Senior Institutions	Yes	credit hours	credit hours	credit hours	credit hours enrollment	credit hours			credit hours		
North Carolina	Community Colleges	Yes	enrollment					enrollment		cost		
Ohio	University Main Campuses	Yes	successfully completed									

State	Type of Institution	Formula currently in use, or will definitely be implemented	Instruction	O&M/Physical Plant	Academic Support	Library Support	Student Services	Remedial Instruction	Research	Institutional Support	Public Service	Scholarships
Ohio	University Regional Campuses	Yes	courses									
			successfully completed courses									
Ohio	Community and Technical Colleges	Yes	enrollment									
Oregon	Senior Institutions	Yes	enrollment									
Pennsylvania	Senior Institutions	Yes	enrollment	square footage; replacement value; predicted space (credit hour)	enrollment		enrollment			enrollment		
Pennsylvania	Community Colleges	Yes**										
South Carolina	Senior Institutions	Yes	student credit hours	costs; instructional square feet	credit hours		headcount		30% of previous FY sponsored research expenditures	credit hours	30% of previous FY sponsored public service and non-general fund public service expenditures	
South Dakota	Federally funded Technical Schools	Yes	enrollment									
Tennessee	2 and 4-year Institutions	Yes	outcome metrics									
Texas	General Academic Institutions	Yes	credit hours	space prediction (credit hours, etc.)								
Texas	Health-Related Institutions	Yes	credit hours	space prediction (credit hours, etc.)					research expenditures			
Texas	Community Colleges	Yes	contact hours									

State	Type of Institution	Formula currently in use, or will definitely be implemented	Instruction	O&M/Physical Plant	Academic Support	Library Support	Student Services	Remedial Instruction	Research	Institutional Support	Public Service	Scholarships
Texas	Vocational & Technical Schools	Yes	contact hours	space prediction (credit hours, etc.)								
Virginia	2 and 4-year Institutions	Yes	enrollment	enrollment	enrollment		enrollment			enrollment		
West Virginia	2 and 4-year Institutions	No	credit hours									
* remedial education was funded FL community college performance-based funding formulas. Neither performance system has been funded recently.												
**new funding formula under development												