"We can and must double the number of college graduates in Arkansas by 2025 if we are to stay competitive. This is a lofty goal aimed at the future, but we must begin implementing it today." Governor Mike Beebe



# Arkansas 2025:

Leading in the Global Economy by Investing in Education and Enhancing Accountability

Performance Funding System

Arkansas Department of Higher Education

# Contents

Background and Purpose	
National, Regional and State Initiatives	4
Assessment of Current Status	8
University Performance Funding	8
Guiding Principles and Timeline	9
Measures and Methodology	11
Two-Year College Performance Funding	13
Guiding Principles and Timeline	
Measures and Methodology	
	-
Sustainability and Maintenance	18
Preserving Academic Integrity	10
Appendices	21
Appendices Appendix A: Key Arkansas Public and Higher Education Officials	
Appendix B: Regional Critical Economic Needs Programs	
Appendix C: STEM Programs	
Appendix D: High Demand Programs	
Appendix E: Act 1203 of 2011	
Appendix F: Technical Specifications	27

# Background and Purpose

# Goal

For most of the 20th Century, America was able to provide an adequate supply of college-educated citizens to keep up with the increasing demands of the workplace. Beginning around 1990, however, as America found itself fully integrated in a global economy, the supply of college-educated young people slowed to an alarming rate. Projecting these growth trends from 2010 to 2025, our country stands to lose its place as the world's economic leader. Without a dramatic increase in the supply of college-educated that the United States must add an additional 20,000,000 postsecondary-educated workers over the next 15 years to compete on an equal footing with other developed nations.

From the early 1990's to the present, Arkansas has experienced a more positive pattern of growth than the nation as a whole. Unfortunately, because of lower rates of educational growth and development

"We can and must double the number of college graduates in Arkansas by 2025 if we are to stay competitive. This is a lofty goal aimed at the future, but we must begin implementing it today." *Governor Mike Beebe*  throughout most of the 20th Century, Arkansas still lags significantly behind the region and the nation. Gov. Mike Beebe recognizes the importance of Arkansas's educational attainment for the future economic growth and the prosperity of its people. On January 11, 2011, the Governor issued a challenge to the state and to its institutions of higher education by stating: "We can and must double the number of college graduates in Arkansas by 2025 if we are to stay competitive. This is a lofty goal aimed at the future, but we must begin implementing it today."

The Arkansas General Assembly, Arkansas Department of Higher Education (ADHE) and the state's public institutions of higher education accepted the Governor's challenge. Senators Gilbert Baker and Johnny Key and Rep. Johnnie Roebuck sponsored Act 1203 of 2011 (AN ACT TO PROMOTE ACCOUNTABILITY AND EFFICIENCY AT STATE-SUPPORTED INSTITUTIONS OF HIGHER EDUCATION; TO CLARIFY FUNDING FORMULA CALCULATIONS FOR STATE SUPPORTED INSTITUTIONS OF HIGHER EDUCATION). Act 1203 was enacted by the Arkansas General Assembly and, on April 5, 2011, Gov. Beebe signed it into law. Over a period of five years starting with FY2013-14, 25% of an institution's base funding will be allocated according to performance.

ADHE Interim Director Shane Broadway and his staff dedicated significant time and effort working with the colleges and universities to develop an effective model for implementing the performance funding component required by Act 1203. Work groups were formed and met weekly to develop performance measures for funding the two- and four-year institutions. Because of the short amount of time available to complete the funding measures, it was critical that the work groups receive weekly data reports to evaluate and validate the measures discussed the previous week. ADHE staff provided the necessary information in a timely manner. This report was written as a result of efforts of the work groups. Without the strong pattern of cooperation among the higher education community and ADHE leadership and staff, this report would not have been possible.

Few can question the importance of the Governor's goal. According to SREB, the fastest-growing, highest-paying jobs require education beyond high school. Jobs in the United States are projected to increase by 19 percent (1.1 million) by 2016 for people with associate degrees and by 17 percent for those with bachelor's degrees.

# DRAFT 11/07/11

The past three years of economic turmoil have made many Americans question where they should invest for their future. Today, passbook savings provide little return. The volatile stock market has sapped many 401(k)s and the safe harbor of homeownership has vanished in a sea of over-extensions and foreclosures. One investment, however, is never questioned: higher education. While some argue that college graduates earn 84% more over their lifetime than their high school-educated counterparts, and others argue the real additional economic value is 74%, no one claims there is not a significant financial return on the investment in a college education. "On average, a four-year degree is the equivalent of an investment that returns 15.2% a year. That's more than double the average return to stock market investments since the 1950s, which average 6.8%; more than five times the return to

investments in corporate bonds, which return 2.9%; gold at 2.3%, long-term government bonds at 2.2% and housing at 0.4%." (College Planning, June 2011)

The data are clear that with each increasing level of postsecondary education from the certificate to the doctoral degree there is a corresponding increase in lifetime financial earnings. While these earnings are most often measured in terms of dollars, earnings also accrue in job satisfaction, career advancement, job attainment and a host of other job-related benefits.

While the economic returns of post-secondary education are important, there are a host of social and personal advantages a college degree brings to almost every aspect of our lives. College graduates are healthier, live



### Median Lifetime Earnings by Highest Educational Attainment, 2009 Dollars

Source: "The College Payoff; Education, Occupations, Lifetime Earnings;" Georgetown University Center on Education and the Workforce

longer, have more stable family lives, and contribute greatly to their communities. College graduates are significantly less likely to commit crimes and more likely to participate in the civic life of their community. With the economic, social and personal advantages a college education promotes, it is not at all surprising that college graduates are much more likely to say they are "very happy" than are their high school graduate counterparts. Gov. Beebe's goal for Arkansas is worthwhile for so many reasons; however, none is more important than the fact that education simply makes life better - better for the individual, better for the family and better for the community.

For these and many other reasons, the institutions of higher education are strongly united behind the Governor's goal of doubling the number of graduates in Arkansas by 2025. Educational achievement is the pathway to prosperity for all Arkansans. Act 1203 of 2011 will help achieve this dream. While this Act and our goal focus on numbers, we cannot let our ambitions for quantity in any way reduce the commitment to quality that has characterized Arkansas higher education. This commitment was recognized in Act 1203 which encouraged steps to "promote degree production while maintaining a high level of rigor" and by requiring higher education institutions to "address institutional accountability for the quality of instruction." Lasting educational improvement results from the collaborative efforts of all citizens of the state working together to increase the number of graduates. But increasing the number of graduates must be done while maintaining the quality educational experience necessary for success as Arkansas citizens and members of the global community.

# DRAFT 11/07/11

# National, Regional and State Initiatives

# National

During the past decade, the national higher education community has seen a dramatic and increasing concern with America's place in the world's educational community. The United States is falling behind other countries in educational attainment. For the first time in history, the current generation of Americans will not be better educated than their parents, and in fact, America's 18- to 24-year-olds are less educated than today's 25- to 64-year-olds. The cause is not as simple as fewer Americans seeking a college education. Quite the contrary, the college-going rate in the United States has remained high. However, many of those fail to complete college, particularly among underrepresented and low-income students.

Almost 50 years after President John F. Kennedy surprised the world by pledging to send a man to the moon, President Barack Obama publicly recognized that America has lost its preeminent standing among the world's most educated nations. In a February 2009 speech to a joint session of Congress, the President challenged the nation by declaring, "By 2020, America will once again have the highest

proportion of college graduates in the world. That is a goal we can meet."

As a nation, we have confronted this situation in a number of ways. In 2004, the Lumina Foundation partnered with seven of the leading higher education organizations to start a national initiative - *Achieving the Dream*. Its goal was to encourage community college students, particularly low-income and minority students, to achieve their dreams by staying in school and earning a degree. Four Arkansas two-year colleges were selected to participate and were funded through the Winthrop

"By 2020, America will once again have the highest proportion of college graduates in the world. That is a goal we can meet." *President Barack Obama* 

Rockefeller Foundation. Every Achieving the Dream institution develops and implements researchbased policies and practices based on quantitative and qualitative analyses of its institutional strengths, problem areas and achievement gaps. Recently, Phillips Community College of the University of Arkansas and Pulaski Technical College were recognized as Achieving the Dream leader institutions for student-centered models of institutional improvement.

Additionally, Arkansas's *Career Pathways Initiative* (CPI) has been recognized as a national model for helping single parents complete a credential and get a job. In September 2011, the Secretary of Health and Human Services visited Arkansas to recognize CPI as one of the 10 best programs in the nation addressing the needs of TANF clients.

During the fall of 2007, a group of public higher education systems from nearly half of the states participated in a program called *Access to Success* in cooperation with the National Association of System Heads and the Educational Trust. The two major goals of this initiative were to dramatically increase the number of college graduates and ensure these graduates more closely resemble the profile of contemporary high school graduates, especially low-income and minority students.

Most recently, four two-year colleges and five universities participated in the *Complete College America* program aimed at improving college completion and closing attainment gaps for traditionally underrepresented populations.

# DRAFT 11/07/11

Additionally, many states have engaged in developing performance models to increase productivity in higher education. In fact, performance funding is a major initiative of the National Governor's Association. Gov. Chris Gregoire of Washington, the current chair of the National Governors Association (NGA), recently said, "The challenge before us when it comes to higher education is increasing productivity – graduating more students with the skills our states need with the resources we have." Performance funding, however, is not a new phenomenon. The first performance funding started in Tennessee in 1979, and since that time over half of the states have developed and implemented a performance funding system. In fact, on January 28, 1994, the Arkansas State Board of Higher Education adopted a performance system titled, "*Strategies for Improvement: Productivity Enhancement for Arkansas Higher Education.*" This system, which allocated new monies based on seven statewide goals, was used for one funding cycle and then discontinued.

# Regional

Individual states and regions of the country quickly moved forward to accept the challenge of producing more graduates, and many did so through the mechanism of performance funding. For instance, efforts in Tennessee, Pennsylvania and Ohio are instructive.

In 1979, Tennessee implemented the first performance funding system for universities and community colleges. In 2010, the Tennessee performance funding model was modified to emphasize 10 outcomes with each assigned a scaled factor with an appropriate weight (e.g. student progression, transfer, degree attainment, research and service). Each measure of the state's institutions was weighted differently depending on its particular scope and mission. This new performance model in conjunction with the previous performance model and with maintenance, operations and equipment allocations makes up the total budget recommendations for higher education institutions in Tennessee.

In 2001, Pennsylvania initiated a performance funding model with a state allocation equal to 2.4% of the total educational and general operating budgets for institutions of higher education. The formula included 10 measures (five mandatory and five non-mandatory) that would allow institutions to achieve a total possible score of 10 points. Mandatory measures included, for example, the number of degrees conferred with special emphasis on bachelors' degrees awarded, improvement in the graduation of low-income and underrepresented minority students, faculty diversity and level of private support.

Ohio instituted its performance funding model in 2010. The university formula includes both degree completion and course completion, with additional weight on course completions by at-risk students. Additionally, the model takes into account mission-specific goals and funding for graduate and medical education. Ohio's community college formula provides a large portion of funding on the basis of enrollment, primarily because they serve a large number of non-traditional and underprepared students. Beginning in 2011, community colleges began receiving a portion of funds based on a number of success points including course completion, progression, degree completion and transfer.

In addition to the efforts of individual states, national and regional organizations developed programs to assist states to increase the number of graduates. The National Center for Higher Education Management Systems (NCHEMS) developed programs to coordinate the efforts of a number of states. Supported by a Lumina Foundation grant, the Southern Regional Education Board (SREB), through its Web site (<u>www.electroniccampus.org</u>), assisted adults who had started but not completed a college program.

# DRAFT 11/07/11

# State

In Arkansas, as a result of the culmination of a number of prior efforts, institutions have focused even more resources to provide access to all students and ensure those students are successful in earning a higher education credential.

### **Access to Success**

One of the most recent efforts, *Access to Success*, an initiative of Rep. Johnnie Roebuck and Sen. Gilbert Baker, laid out a number of challenges for the state's higher education institutions. One challenge is particularly relevant to the performance model outlined in this report.

• Strengthening the Arkansas Education Pipeline -The number of Arkansas residents who hold certificate, associate or bachelors' degrees is below the national average, and an insufficient number of students attending two-year colleges pursue a bachelors' degree.

In order to reach the goal of doubling the number of certificates and degrees by 2025, Arkansas higher education institutions must produce 4.73% more credentials than the current pace each year. Arkansas institutions are poised to meet this challenge. One only need look to the SREB rankings from the most recent year to see that Arkansas colleges and universities are No. 1 in the growth rate of bachelor degree production and No. 2 in the growth rate of associate degree production.

As mentioned above, while SREB has taken note of the progress Arkansas institutions have seen in the production of certificates and degrees, it must be acknowledged that the national rankings for retention and graduation only account for a small percentage of students enrolled in Arkansas institutions. The traditional IPEDS definition for graduation rate calculations fails to include the vast majority of students on today's college campuses since it only accounts for first-time, full-time, degree-seeking students who enroll in the fall semester. This narrow definition does not include the increasing number of part-time students, those who begin in the spring semester or those who transfer to another institution. The *Access to Success* task force recognized the need to go beyond the traditional definition of "student," and in particular on Page 35, Item 7.5, clearly stated that in measuring rates of remediation, retention and graduation, the definition of "student" be broader than "first-time, full-time." We could not agree more.

### **STEM Works**

*STEM Works*, an initiative of the Governor's Workforce Cabinet, specifically seeks to overhaul the ways in which Arkansas high school students receive STEM education and increase the number of well-qualified STEM teachers. *STEM Works'* objectives specifically seek to:

- Accelerate and transform secondary STEM education to better prepare high school graduates to pursue college degrees in STEM disciplines through New Tech High Schools and Relevant Education for Active Learning (REAL) schools, an initiative of the Environmental and Spatial Technology (EAST) schools.
- Provide special secondary teacher training through the UTeach program for college STEM majors to ensure that Arkansas produces a steady stream of qualified teachers.

One of the goals of *STEM Works* is to have 10 high schools implementing extensive project-based learning by the start of the August 2012 school year.

DRAFT 11/07/11

ADHE Interim Director Shane Broadway recently said, "It is critical for Arkansas to emphasize STEM education as we envision the jobs we will need in the future. We need to produce increasing numbers of STEM professionals with associate, baccalaureate, master's and doctoral degrees and, more importantly, we need to produce more teachers in the STEM disciplines who have deep content knowledge and understand student learning."

# National Center for Higher Education Management Systems (NCHEMS)

As part of its statewide effort to increase the number of graduates, Arkansas engaged NCHEMS to study its past progress and suggest additional strategies. The resulting report, *Increasing the Competitiveness of the Arkansas Workforce for a Knowledge-Based Economy: How Do Current Higher Education Policies Help or Get in the Way?* outlined two goals that speak to the heart of efforts to fully prepare today's students for tomorrow's future.

A goal stated by NCHEMS:

• Any strategy to improve the state's competitiveness must address all regions, not only those that are currently the most competitive. Differences across regions of Arkansas in income are directly related to the educational level of [its] population. Arkansas is composed of several different 'states' in terms of demography, economy, and educational attainment.

In the August 17, 2011, *Arkansas Democrat-Gazette*, columnist Rex Nelson contributed an article illustrating the two very different areas of our state. He wrote: "[T]here are a number of counties in the central, northwest and western portions of Arkansas doing relatively well economically while consistently gaining population. Then, there are large swaths across the eastern and southern portions of Arkansas that continue to struggle. Thirty-nine counties gained populations during the past decade. Thirty-six counties lost population." There are several institutions located in south Arkansas with relatively stagnant, even declining, populations with large pockets of low-income workers. To be successful, all sectors of the higher education community must do well.

Arkansas has begun to develop strategies to address regional education and training needs. For example, five two-year colleges in the Arkansas Delta collaborated to use their collective resources to address current and future training needs of business and industry. Gov. Mike Beebe has called the Arkansas Delta Training and Education Consortium (ADTEC) "the model" for matching community college curriculum to the needs of potential businesses and area employers. Based on the success of ADTEC, all two-year colleges in Arkansas have formed regional consortia to focus on the workforce training needs of their respective areas. The newly formed regional consortia include the North Arkansas Two-Year College Consortium, the Central Arkansas Community College Consortium and the Southwest Arkansas Community College Consortium.

Another goal stated by NCHEMS:

• Arkansas cannot reach competitive levels of educational attainment only by educating recent high school graduates. Even if Arkansas increased the college-going rate of recent high school graduates to the level of best performing states, Arkansas would still fall short in the needed increase in degree production.

Adult learners are a key, and we know there are many who either left higher education shy of the number of credits to graduate or never pursued a higher education credential after high

# DRAFT 11/07/11

school. Gone are the days when training and education beyond high school were a luxury; it is now a necessity regardless of the type of employment or career one pursues.

### Path to Accelerated Completion and Employment (PACE)

In October 2011, the AATYC Center for Student Success, in partnership with Northwest Arkansas Community College, acquired a \$14.7 million dollar grant from the U.S. Department of Labor. The grant funds the *Path to Accelerated Completion and Employment (PACE)* program and includes all Arkansas two-year colleges. PACE has three main goals aimed at improving student success and reducing time to degree:

- Redesigning developmental education instruction in math and language, and placement test orientation for students
- Streamlining certificate and degree programs (reduced credit requirements, tighter course scheduling, compressed courses, and blended instruction)
- Enhancing academic advising and student development through use of technology.

# **Assessment of Current Status**

Embarking on a bold and challenging goal such as doubling the number of graduates by the year 2025 can be a daunting, almost impossible task. We believe the achievement of the goal will only be possible because this journey doesn't begin today but builds on the past accomplishments of Arkansas's institutions of higher education. The Arkansas record of accomplishments is indeed a strong one upon which to build. That past has included significant effort by the Arkansas higher education community to increase the college- going rate, the progression rate of all students from matriculation to graduation and the final destination – graduation.

SREB recently released information regarding increased production in degrees and certificates awarded by public two- and four- year institutions in the 16 SREB states. Arkansas can be proud of these results. Most relevant to Gov. Beebe's goal, Arkansas universities and colleges were ranked No. 1 and No. 2, respectively, in the growth of degree production in the SREB. From 2007-08 to 2008-09, Arkansas universities' degrees and certificates conferred grew by 7.5% while the SREB average was 3.4%. Two-year colleges over the same period increased total degrees and certificates by 18.4% while the SREB average grew by only 3.9%. From 2006-07 to 2008-09, Arkansas universities experienced a 10.5% increase in bachelor's degrees conferred while the SREB states averaged 6.5%. Without this sound foundation and commitment to growth, the goal of doubling the number of degrees each year by 4.73% would not be attainable.

# University Performance Funding

In developing the performance model required by Act 1203, the university work group studied in great detail historical patterns of performance funding, looking specifically at which patterns were associated with successful funding systems. In addition, the work group studied, in more detail, states where current systems are being developed. Among the states examined closely were Tennessee, Pennsylvania, Ohio, Washington and Louisiana. From these analyses, the group found that successful systems utilize a relatively small number of simple, easy-to-understand measures explicitly tied to state goals for student completion and economic development. For example, the four mandatory measures

# DRAFT 11/07/11

in the Arkansas system are bachelor credentials earned, total credentials earned, student progression toward degree completion and STEM credentials earned.

# **Guiding Principles and Timeline**

The university performance funding system is based on the following principles:

### Increasing Credentials without Comprising Academic Rigor

The most important feature of the performance funding system is the requirement that each university double the number of degrees it produces by 2025 while maintaining academic integrity and quality. While technical certificates and associate degrees are included, significant weighting is placed on increasing the number of bachelor's degrees awarded. The performance funding measures require all institutions be measured each year on total credentials awarded, bachelor credentials awarded, STEM production and student progression. Forty percent of all performance funding will be allocated to these four measures, with the remainder on optional measures selected by each institution.

### **Recognizing Important Policy Considerations**

With Act 1203 as our guide, the universities recognize that to bolster the economic development needs of the state, we must significantly increase the number of STEM degrees awarded to Arkansas students, as well as the number of secondary education STEM educators.

### Missions, Role and Scope

The performance funding measures recognize the diversity of Arkansas's universities and the varying demographics and economic realities of their locale, as well as the academic unpreparedness of many of the students they serve. The measures recognize these variations through the use of optional measures. Many of the optional measures are derived from Act 1203 and include underrepresented minorities, non-traditional, transfer and low-income graduates, as well as graduates with remedial needs and those electing a course of study in a high demand field or a critical need of a particular region of the state.

### **Economic Development**

The sponsors of Act 1203 identified research activities as a university performance funding measure recognizing its importance in bolstering the economic development of the state. In addition to teaching on the undergraduate level, several universities are involved in substantial research efforts through the receipt of external grants and awards, issuance of patents and the development of new companies. While not directly producing graduates, these economic development measures produce jobs, a component that must be present if the state has any hope of retaining a large percentage of its graduates.

### **Improvement Begins at Home**

The combination of mandatory and optional measures holds all institutions accountable for the major state goals outlined in Act 1203. The measures also allow each institution to select optional goals based on mission, role and scope. Each institution will be measured against its own progress and not against an arbitrary standard.

### **Need for Flexibility**

Since the performance funding system will be implemented over an almost 15-year period, it must be organic and adaptable to changing national, state, regional and institutional needs. Specifically, the measures recognize that the performance record in the early years will almost certainly change over

# DRAFT 11/07/11

time and that it must be reviewed on an annual basis to assure the overall goal of doubling the number of graduates by 2025 is attainable.

### **Keeping it Simple**

The measures must be simple, clear and understandable – mandatory and optional measures, with an adjustment for the percentage of undergraduate students receiving a Pell award.

### **Data-Driven Decision-making**

Consistent with our two-year counterparts, the success of the performance funding measures will depend upon accurate and reliable data.

Each meeting of the university work group was attended by approximately 40 or more individuals – presidents, chancellors, academic officers, fiscal officers, institutional research and government relations personnel – representing all of the universities. Several of the meetings were attended by various staff members from the Arkansas Department of Higher Education, Governor's Office, Bureau of Legislative Research, Dr. Olin Cook from the Arkansas Higher Education Coordinating Board, Sen. Sue Madison, Rep. Jim Nickels and Rep. Tiffany Rogers.

The following is a brief summary of the highlights of each meeting:

April 15 – AHECB meeting (presentation and discussion of Act 1203)

**April 25** – ADHE meeting with all institutions (presentation and discussion of Act 1203)

May-June – Individual campus and system meetings to discuss implementation of Act 1203

June 27 – Preliminary discussion of performance models

July 8 – Initial meeting of the four-year work group

**July 20** – Discussion of performance funding models from PA, LA, WA, and TN based upon contact with representatives from those states

**July 22** – Discussion of performance measures, as well as *Compete to Complete* from the National Governors Association and *The Politics of Performance Funding in Eight States* – *Origins, Demise and Change* from the Lumina Foundation

July 26 – Discussion of performance measures, in particular, how to address the progression of students (retention) which led to the appointment of Institutional Research personnel to create a model addressing the need to account for all students; discussion of rolling and baseline averages July 29 – Discussion of performance measures recommended by institutions

August 3 – Discussion of performance measures, in particular, which credentials and degrees to count, defining and determining progression, STEM, low-income, transfer and course completion August 9 – Discussion of definitions ADHE prepared for each performance measure, in particular, how to define low-income and non-traditional students, appropriate STEM CIP codes, and three regional critical needs for each institution

August 23 – Continued discussion of the issues noted above and data analysis

August 30 – Continued discussion of the issues noted above and data analysis

September 7 – Continued discussion of the issues noted above and data analysis

September 14 – Continued discussion of the issues noted above and data analysis

September 21 – Continued discussion of the issues noted above and data analysis

September 26 – Discussion and compilation of performance funding report

**September 28** – Discussion of external grants and awards received measure, baseline year for credentials (2009-10), calculation of progression and STEM measures, and the importance of building upon the recent success in degree production of Arkansas' colleges and universities (SREB)

# DRAFT 11/07/11

October 4 - Presidents and chancellors approve the performance funding measures recommended by the work group for consideration by the AHECB October 12 – Discussion and compilation of performance funding report October 19 – Discussion and compilation of performance funding report

# **Measures and Methodology**

The underlying guide for developing performance measures was, and continues to be, Gov. Beebe's charge to increase degree production among Arkansas's institutions of higher education. The primary measures, mandatory for all public universities and weighted for emphasis within the performance funding model, is the production of academic credentials.

The performance funding measures have been classified into three categories: (1) Mandatory; (2) Optional; and (3) Compensatory. The mandatory measures reflect those items that are most directly tied to the Governor's goal and can be measured consistently across all universities. Optional measures serve as barometers of each institution's progress in meeting the core objective of doubling the number of degrees awarded by 2025. Because institutions have different missions, role and scope designations, and serve unique geographical needs, the array of optional measures allows each institution to meet the Governor's objective in a manner that is consistent with its mission. The compensatory measure is an adjustment that recognizes the importance of engaging and advancing more individuals from low-income groups. Because this segment of the population has been underserved historically and represents one of the most significant opportunities to enhance degree production, this measure has been identified as a stand-alone item to ensure appropriate focus remains on advancing these students through the higher education pipeline.

### **Mandatory Measures**

The first two measures on which all institutions will be evaluated are continuous improvement in bachelor's degrees awarded and in total degrees awarded. Starting with a baseline of the 2009-10 academic year, the performance model establishes a goal for degree production for each public, four-year institution in Arkansas that is targeted toward doubling the number of degrees currently earned by students at these institutions by 2025.

The model established by the work group allocates points and partial points on the basis of each institution's ratio of meeting the goal. This system will allow institutions to track their own progress toward their proportionate share of degree production required to meet the goal.

For Arkansas to be competitive for higher-wage, knowledge-based jobs, the work group determined that increased degree production should also emphasize degrees earned in the sciences, technology, engineering and mathematics (STEM) disciplines. Thus, as a subset of the first two mandatory measures, all institutions will be measured on growth in STEM degrees.

### **Progression: A New Measure of Student Retention**

As we've noted, the standard IPEDS definition used to measure the retention of students for the past 20 years tracks only those who begin their college careers as first-time, full-time, degree-seeking students. While this measure captures some students on our campuses, a significant number of post-secondary students are non-traditional, and how they access higher education does not follow the pattern of traditional students.

DRAFT 11/07/11

To address these demographic variations and economic realities, a work group of individuals associated with the university institutional research offices developed a new measure for assessing student retention by focusing on tracking the progression of students toward a degree. By developing a more inclusive tracking model, the universities will hold themselves accountable utilizing a measure that more broadly reflects their student bodies and encourages support for students who enter later in life, stop out for a variety of reasons, or begin as part-time instead of full-time students.

The new progression measure is both more inclusive and addresses the intent of the performance funding legislation by counting those students who earn a threshold of credits toward their degrees or successfully complete a credential in a reasonable but more flexible time frame.

### **Optional Measures**

As is the case with the new progression measure, the optional measures attempt to acknowledge and weight improvement in degree production of various subsets of students. If universities are successful with students who are most at-risk based on economic and age factors, there will be an overall growth in degrees earned.

Increasing the percentage of Arkansans who hold a bachelor's degree or higher involves a three-pronged approach: 1) encouraging more current students to complete degrees; 2) recruiting more degree-seeking students; and 3) recruiting more business and industry to employ degree-holders. Without all of the above, we will not realize the full economic development potential of the state.

Beyond degree production, Arkansas universities contribute to the support of new and existing industry through research efforts that attract external funds, patents for new products and new companies that provide jobs throughout the state. By including these economic development considerations, high-demand and critical-needs measures as options for institutional focus, the performance funding model appropriately recognizes the various institutional missions, role and scope.

	Mandatory Measures
Measure	Definition
Bachelor Credentials	Number of bachelor's degrees earned by students for an academic year
	regardless of enrollment status.
Total Credentials	Number of all credentials (technical certificates and above) earned by a
	student for an academic year regardless of enrollment status.
STEM Credentials	Number of all credentials (technical certificates and above) earned by a
	student for an academic year regardless of enrollment status in the STEM
	CIP Codes. The source identifying STEM CIP Codes is the 2011 version
	published by US Immigration and Customs Enforcement (ICE). The list may
	be found at the following website ( <u>www.ice.gov/sevis/stemlist.htm</u> ).
Progression: University	This measure utilizes a cohort of credential-seeking students enrolling in 6
Version (New Arkansas	or more hours during a fall semester. The cohort is then tracked through the
Measure)	next academic year to identify how many students in the cohort earned a
	total 18 or more credit hours through the two academic years (including
	remedial/developmental courses). The Progression Rate is expressed as a
	percentage and changes over time are expressed as a difference in
	percentage points. If a student graduates during the allotted time frame,
	then that student is counted as progressed.

The following table provides a list of the measures with definitions:

	Optional Measures
Measure	Definition
Course Completion	This is a Successful Course Completion Rate calculation which compares
	number of successful SSCH to all SSCH in all non-remedial courses. The
	Successful Course Completion Rate is expressed as a percentage and
	changes over time are expressed as a difference in percentage points.
High Demand	Number of all credentials (technical certificates and above) earned by a
Credentials	student for an academic year regardless of enrollment status in the HIGH
	DEMAND CIP Codes. The 2011 version of the HIGH DEMAND CIP Codes were
	obtained from ADWS (Arkansas Department of Workforce Services).
Minority Student	Number of all credentials (technical certificates and above) earned to
Credentials	persons identified as Asian only, Black only, Hispanic any, American
	Indian/Alaska Native only, Hawaiian/Pacific Islander only or Two or More
	Races. (Unknowns, Non-Resident Aliens, White and Other graduates are not
	included.)
Non-Traditional	Number of all credentials (technical certificates and above) earned by a non-
Student Credentials	traditional student in an academic year. Non-traditional students are
	defined as age 25 or older at the time of graduation.
Remedial Student	Number of all credentials (technical certificates and above) earned by a
Credentials	remedial student in an academic year. Remedial students are defined as
	students who were required to take at least one remedial course for
	completion.
Regional Economic	Number of all credentials (technical certificates and above) earned by a
Needs Programs	student for an academic year regardless of enrollment status in programs
Credentials	identified by the institution and approved by the Arkansas Higher Education
Turn of a Churd and	Coordinating Board. See Appendix B for detail.
Transfer Student Credentials	Number of all credentials (technical certificates and above) earned by a
Credentials	student transferring from another Arkansas public institution of higher
Expenditure of Federal	education. Increase in restricted federal expenditures excluding transfers and
Awards	scholarships by fiscal year.
Patents	The number of U.S. patents (utility, plant or design) issued or reissued to an
Falents	institution within the year. Certificates of plant variety protection issued by
	the USDA should be included.
New Company Start-	The number of new companies started during the years that were
ups	dependent on licensing an institution's technology for their formation.
~~~	Compensatory Measure
Percentage of Pell	Percentage of all undergraduate students receiving Pell grants
Receiving	(http://nces.ed.gov/collegenavigator/)
Undergraduate	
Population	

# Two-year College Performance Funding

Arkansas two-year colleges have come a long way in 20 years. Twenty-two two-year colleges provide access to higher education to all corners of the state. In the last five years alone, student enrollment at Arkansas community colleges has grown more than 25%. New programs have been established to keep up with technology changes and the needs of business and industry. Partnerships have been forged among colleges and with the business community to share resources and capitalize on regional strengths.

# DRAFT 11/07/11

Some things have not changed. Two-year colleges are open-door institutions with student populations that reflect the communities they serve. Nationally, nearly half of all community college students are the first in their family to attend college. In Arkansas, nearly half of community college students are ages 25 and older and the vast majority require remediation.

Two-year colleges have been working to improve student success for years and the recently established AATYC Center for Student Success, funded by the Winthrop Rockefeller Foundation, will build upon this work. There is no one-size-fits-all answer; it takes a variety of programs and services to meet the diverse needs of students. While performance funding is a natural next step to continue to encourage student success, the model should help lower-performing colleges improve through data-based decision making.

### Arkansas Two-Year College Students

- 86% require at least one remedial course.
- 43% attend part-time.
- 48% are ages 25 and older.
- Nationally, nearly half of all community college students are the first in their family to attend college.

# **Guiding Principles and Timeline**

Two-year colleges are open-door institutions that serve four major educational purposes: 1) technical skills education; 2) preparation for transfer to a four-year university; 3) remedial education and; 4) workforce training for business and industry. A two-year college performance funding model must incorporate all four purposes.

Considering the unique characteristics of two-year colleges, the work group struggled with several questions while developing a performance funding model. The group found it imperative to keep the model as simple as possible while also maintaining flexibility for individual colleges to account for regional missions and demographics.

It was immediately clear that two-year colleges have a number of things in common. They all serve academically under-prepared students requiring remediation and extra support from student services. They all have a significant number of part-time and non-traditional students, and they all share the goal of increasing course and credential completion.

With these commonalities in mind, it was clear that an accurate model for two-year colleges must measure the success of all students. In addition, the mission of two-year colleges cannot be compromised. They must continue to serve all Arkansans with dreams of pursuing higher education, while maintaining academic rigor to deliver a quality higher education.

There are also some differences among Arkansas two-year colleges. While all colleges have significant populations of low-income and academically under-prepared students, some regions of the state have considerably more. Emphasis on workforce training needs and transfer to four-year universities also varies by region.

# DRAFT 11/07/11

Another consideration was how enrollment changes could impact data. For example, the explosive enrollment growth between 2008 and 2010 was a result of a lagging economy. As people lost jobs, they enrolled in college for training or re-training. Enrollment is likely to stabilize or even decrease as the economy recovers and people return to work. This could eventually impact the number of credential completers and skew the data.

A final concern during this process was ensuring that each institution could calculate the data and arrive at the same number as ADHE. Data credibility will set the tone for the success of this model.

The following is a timeline of the two-year college work group process:

# May 2011

• Presidents and Chancellors (Ps/Cs) conduct a conference call with Ron Abrams regarding Ohio's performance funding model.

# July 2011

- Ps/Cs nominate personnel for a performance funding work group. The group includes a diverse skill-set including finance, research, student affairs, academic affairs and faculty.
- An initial planning meeting is held to discuss strategy. The group identifies performance funding models from other states to research in-depth. States included Washington, Ohio, Tennessee, Pennsylvania, Indiana and Louisiana. Work group members volunteer to call representatives from each state. A conference call is held for members to report findings back to the group.
- Tennessee and Ohio emerge as potential models for Arkansas and conference calls are arranged to have representatives from those states speak to the entire work group.
- The work group meets with ADHE to discuss timeline and potential measures.
- Work group members report regularly to Ps/Cs regarding progress.

### August 2011

- Conference calls are held with the work group and representatives from Tennessee and Ohio.
- Based on discussions with Tennessee and Ohio, AATYC drafts measures and definitions for the work group to consider.
- The work group meets in person one time and by conference call three times.
- The work group meets with ADHE two times to discuss definitions and methodology.
- Work group members report regularly to Ps/Cs regarding progress.
- AATYC reports on progress of the work group to Ps/Cs and receive feedback.

### September 2011

- The work group meets independently and with ADHE to finalize recommendations.
- AATYC holds a webinar for Ps/Cs to explain in detail the recommendations of the work group. Ps/Cs are asked to review the recommendations and to be prepared to make decisions and vote in two weeks.
- Ps/Cs meet on September 22<sup>nd</sup> to review and vote on recommendations. Ps/Cs break into four groups by region. Information is presented in stages and is discussed first in small groups. Small groups report out to entire group. Ps/Cs vote individually on each issue.
- AATYC makes revisions and distributes the final performance funding model to Ps/Cs, the work group and ADHE.

DRAFT 11/07/11

# **Measures and Methodology**

The basic framework for the two-year college model includes mandatory, mandatory compensatory and optional measures – the latter are available for colleges to select based on individual mission and demographics.

While reviewing data from previous years, the work group became concerned with controlling for data anomalies. For example, in 2010 Pulaski Technical College embarked on an ambitious project to locate credential eligible students who never applied for graduation. As a result, the college doubled its number of completers that particular year. This increase was a one-time occurrence and cannot be replicated in the near future. Another example is the closing of the Brown Shoe Factory in Paragould. Dislocated workers flocked to Black River Technical College to upgrade their skills, resulting in a temporary increase in enrollment. As these dislocated workers completed their educational goals and returned to work, enrollment returned to normal. With these and other examples in mind, the work group decided to use an average of multiple years in the data comparisons. For all measures, an average of the most recent three years is compared to an average of the most recent five years.

### **Mandatory Measures**

The four major categories of two-year college mandatory measures include: 1) Course completion; 2) Progression; 3) Credential completion and; 4) At-risk students. These measures are standard across all 22 two-year colleges.

### **Course Completion**

As noted earlier, it is common for students to enroll in two-year colleges for one or two courses in order to get a job or promotion. It is also common for students to complete remedial courses at two-year colleges before transferring to a four-year university. To account for "swirling" students whose success would never be included in a measure of credential completion alone, a course completion measure is included for both remedial and non-remedial courses.

### Progression

Progression is essential to the eventual goal of completing a credential. However, traditional measures include only first-time, full-time students. This traditional measure is inadequate for the modern two-year college student who is likely to be an adult attending part-time. To measure progress of all students, a new progression rate was developed for both two- and four-year institutions. As discussed in the university measures, this new progression rate is more inclusive and more accurately reflects the progression of adult and part-time students.

### **Credential Completion**

In order to meet Gov. Beebe's goal of doubling the number of Arkansans with degrees by 2025, it is essential to include a measure of associate degree completers; however, this is only a fraction of the two-year college mission. Arkansans with certificates of proficiency and technical certificates have skills that are essential to nearly half of projected new jobs, according to Skills2Compete. Therefore it is essential to measure the number of all credential completers. To address the work group's concerns about enrollment swings impacting the number of completers and skewing the data, an additional measure of completers relative to enrollment is included.

DRAFT 11/07/11

### **At-Risk Students**

While all two-year colleges have a significant number of at-risk students, certain regions have considerably more. Students are considered at-risk if they are less likely than the general population to meet their educational goals. The at-risk factors common to all two-year colleges include low-income and academically under-prepared students. To give some credit to colleges with more of these students, compensatory measures for low-income and under-prepared are included.

### **Optional Measures**

To account for varying missions and regional demographics, seven optional measures from which colleges may select are included. Optional measures include STEM credentials, high-demand credentials, workforce training, transfer, adult completion, minority completion and employment.

	Mandatory Measures
Measure	Definition
Remedial Course	The rate of remedial courses completed relative to remedial courses attempted.
Success	
Non-remedial Course	The rate of non-remedial courses completed relative to non-remedial courses
Success	attempted.
Progression	The rate of students that complete either 18 hours or a credential.
Certificates of	The number of certificates of proficiency awarded.
Proficiency	
Technical Certificates	The number of technical certificates awarded.
Associate Degrees	The number of associate degrees awarded.
Total Credentials	The rate of credentials awarded relative to enrollment.
	Mandatory Compensatory Measures
Measure	Definition
Low-Income	The number of low-income students relative to enrollment.
Under-prepared	The number of underprepared students relative to enrollment.
	Optional Measures
Measure	Definition
STEM Credentials	The number of STEM credentials awarded.
High Demand	The number of high demand credentials awarded.
Credentials	
Workforce Training	The number of workforce training contact hours reported.
Transfer	The number of students that transfer after completing a minimum of 12 hours.
Adult Credentials	The number of credentials awarded to adults.
Minority Credentials	The number of credentials awarded to minorities.
Employment	The number of credential completers that obtain employment.

The following table provides a list of two-year college measures with definitions:

# DRAFT 11/07/11

# Sustainability and Maintenance

The performance funding models described above were designed to assist Arkansas students to succeed in their higher education goals and in doing so reach the statewide goal of doubling the number of graduates by 2025. Through a system, designed to encourage two- and four-year campuses to continually improve academic and support programs, Arkansas institutions of higher education will help more students prepare for increasingly sophisticated and technologically demanding jobs. A better educated and trained workforce will help the state attract a greater number and diversity of business and industry.

It is important to note, however, that this is not a "one-and-done" model in which higher education develops a performance model and then sits back and watches the advantages accrue. In fact, future employment opportunities and needs will continue to grow, change and develop. Regions of the state will continue to change both in economic opportunity and in demographic composition. The performance model must not only deal with the current economic and educational environment but should also respond to emerging and changing needs of the future.

In order to maintain an effective system, it must be continually monitored to assure it effectively serves the students of the state. To accomplish this goal, a standing committee from higher education institutions and ADHE will be formed to examine the performance funding landscape each year and make recommendations to the Presidents and Chancellors Executive Council and Arkansas Higher Education Coordinating Board for needed modifications. Each year's evaluation will focus on the previous year's results in each of the measures and in the overall growth of graduates. Changes may be needed in the scales attached to each measure, weighting of various measures, funding distribution and even the measures themselves.

An important task of the standing committee will be to review and analyze data in order to set performance targets for institutions. The targets would serve as the benchmark for an institution's continued performance. An institution that attains or maintains the target on any measure will receive points comparable to those allocated for improvement. For example, it would be impossible for an institution to reach 100 percent on its progression measure, thus it will be necessary for the standing committee to establish targets that are both meaningful and realistic.

This ongoing evaluation will be empirically-based, and will assure that timely modifications are made so that Arkansas students can succeed and the state can reach its economic and social goals through increasing the number of citizens who complete college. The standing committee will meet annually and make recommendations for needed modifications for the next year's funding.

While there are obvious reasons why we must continually monitor and adapt this system to changing state needs, it is ever more important when a campus or an entire region of the state could lose up to 25% of its higher education funding base in a given year. No organization could be expected to continue operating effectively after such a dramatic loss. The results of such a substantial loss to an institution could reverberate throughout the entire state. Not only would the state goal of doubling the number of graduates be jeopardized, but the entire student body of an institution would be penalized through the almost certain reductions in the faculty and staff needed to provide an adequate education. Careful

monitoring, updating and improving of the performance funding model, as well as providing assistance to an institution experiencing serious challenges, will help assure that this dire situation never occur.

While improving retention and graduation has always been a priority for Arkansas's institutions of higher education, now is the time for state policy to zero in on degree completion. For more than two decades, Arkansas policymakers have focused on increasing access to college and improving the state's college-going rate. Beginning with legislation that allowed for the formation of the state's community colleges in 1991 and continuing with the creation of a number of state scholarship programs, particularly the Academic Challenge Scholarships in 1991 and the Governor's Distinguished Scholarships in 1997, Arkansas has attempted to remove the financial and locational impediments to give citizens of all stripes the opportunity to better themselves through higher education. This effort culminated in 2009 with the establishment of the Arkansas Scholarship Lottery, which is generating roughly \$100 million a year in Academic Challenge Scholarships.

While access to higher education has improved dramatically, many first-generation students who are under-prepared for college-level work have entered the pipeline and struggled to earn degrees. While statistics show that Arkansas colleges and universities are steadily improving degree production, we must continue to do more to get these students to the finish line. We believe this performance funding model is the logical next step in continuing to improve student success, while maintaining a policy that encourages all citizens to go to college.

Meanwhile, state policy also must continue to focus on ensuring that Arkansas high school students are prepared for the rigors of higher education. The state has made great strides through the implementation of common core standards and must continue to encourage school districts to give students the opportunity to prepare themselves to further their education after high school. As Gov. Beebe often says, we must focus on the entire education system, from Pre-K through graduate education, to improve the economic well-being of all Arkansans.

# Preserving Academic Integrity

While Arkansas's colleges and universities are firmly committed to meeting Gov. Beebe's challenge of doubling the number of baccalaureate degree holders in the state by 2025, any increase in the quantity of degrees awarded cannot come at the expense of academic standards and quality. Thus, our commitment to increasing the number of baccalaureate degree holders does not imply a decrease in academic quality or, in any manner, infer that institutions of higher education will award a single degree based upon the numerical objectives discussed earlier in this report. Therefore, significant care must be taken to preserve the academic integrity of each institution as we embark upon this bold journey, together.

The role of the faculty will be essential to the success of this journey as they continue to foster highquality learning environments while also supporting student development and retention initiatives that will occur outside of the classroom. As more students enter into, and are retained by, the Arkansas higher education system, it will be imperative that the faculty, department chairs, and academic deans be provided with continuing opportunities for meaningful input into all efforts designed to enhance the academic performance of students on their respective campuses. Therefore, the nexus between the offices of Student Affairs and Academic Affairs must remain strong on all campuses to ensure good students do not "fall between the cracks." Further, this nexus to quality is important to ensure students

who are not as prepared academically are acquiring the skills and receiving the guidance and direction needed to unlock their full academic potential.

Faculty will continue to provide mentoring, encouragement, understanding and advising to support students in meeting the rigor presented by each academic program. However, academic success ultimately lies at the feet of each student and this success is dependent upon students being prepared for the challenges of higher education and their willingness to embrace the tenets of commitment, discipline and sacrifice in their pursuit of a college education. Consistent with this commitment by our students, we will strive to preserve the academic integrity of all programs in a manner that assures the public that all Arkansas college graduates are prepared to work, live, and lead in the communities they will one day call home.

Academic quality will be preserved throughout this process by utilizing a combination of the following measures of quality at each public institution of higher education.

- The maintenance of regional accreditation by each institution.
- The maintenance of regionally and nationally accredited academic programs.
- Monitoring the percentage of students who graduate from accredited programs.
- Monitoring student performance on professional licensure exams.
- Monitoring the number of two-year college students that transfer to four-year universities.
- Monitoring the percentage of students who matriculate into graduate programs after receiving their baccalaureate degree.
- Reviewing institutional reporting of data detailing its assessment of student learning outcomes.
- Compiling and publishing the results of state-mandated program reviews by ADHE on an annual basis.
- Analyzing and reviewing the placement rates of graduates in the marketplace.
- Enhancing the presence of quality academic support programs designed to develop students academically and subsequently to enhance their performance in the classroom.
- Monitoring the increases in the number of degrees awarded to ensure growth is occurring over a range of CIP codes unless such growth is focused on CIP codes in the STEM or High Demand areas.

These measures are not exhaustive and collectively they serve as strong indicators that academic integrity is being preserved as the objectives of this plan are being pursued. Ultimately, the quality of academic programs at any institution will be inextricably linked to the quality of the institution's faculty. Therefore, the state of Arkansas must relentlessly support all new and continuing efforts to recruit and retain faculty who are among the best and brightest in their field and who are committed to the ideals of student success and engagement.

# Appendix A: Key Arkansas Public and Higher Education Officials

### Honorable Mike Beebe, Governor

Mr. Shane Broadway, Interim Director, Arkansas Department of Higher Education

### Arkansas Higher Education Coordinating Board

Mr. David Leech, Chair Dr. Olin Cook, Vice Chair and liaison on the Performance Funding Work Group Ms. Sarah Argue, Secretary Dr. Charles Allen Dr. Joe Bennett Mr. Bob L. Burns Mr. Bob Crafton Mr. Horace Hardwick Mr. Kaneaster Hodges Dr. Calvin Johnson Mr. Steve Luelf Mrs. Florine Milligan

Sponsors of Act 1203 of 2011

Senator Gilbert Baker Senator Johnny Key Representative Johnnie J. Roebuck

### **Presidents and Chancellors**

Dr. Charles L. Welch, President, Arkansas State University System \* Dr. Dan Howard, Interim Chancellor, Arkansas State University Jonesboro Dr. Robert Brown, President, Arkansas Tech University Mr. Bobby Jones, Interim President, Henderson State University \* Dr. David F. Rankin, President, Southern Arkansas University Dr. Donald R. Bobbitt, President, University of Arkansas System Dr. B. Alan Sugg, President Emeritus, University of Arkansas System \* Dr. G. David Gearhart, Chancellor, University of Arkansas Fayetteville Dr. Paul Beran, Chancellor, University of Arkansas at Fort Smith Dr. Joel E. Anderson, Chancellor, University of Arkansas at Little Rock Dr. Jack Lassiter, Chancellor, University of Arkansas at Monticello Dr. Lawrence A. Davis Jr., Chancellor, University of Arkansas at Pine Bluff Mr. Tom Courtway, Interim President, University of Central Arkansas Dr. Robert Myers, President, Arkansas Northeastern College Dr. Eugene McKay, Chancellor, Arkansas State University-Beebe Dr. Ed Coulter, Chancellor, Arkansas State University-Mountain Home \* Dr. Larry Williams, Chancellor, Arkansas State University-Newport Dr. Wayne Hatcher, President, Black River Technical College Dr. Barry Ballard, President, College of the Ouachitas Mr. Steve Cole, Chancellor, Cossatot Community College of the University of Arkansas Dr. Coy Grace, President, East Arkansas Community College Dr. Glen Fenter, President, Mid-South Community College Dr. Sally Carder, President, National Park Community College Dr. Jackie Elliott, President, North Arkansas College Dr. Becky Paneitz, President, Northwest Arkansas Community College Dr. Richard Dawe, President, Ozarka College \*

# DRAFT 11/07/11

Dr. Steven Murray, Chancellor, Phillips Community College of the University of Arkansas

Dr. Dan F. Bakke, President, Pulaski Technical College \*

Mr. Phillip Wilson, President, Rich Mountain Community College

Dr. Barbara Jones, President, South Arkansas Community College

Dr. Steve Hilterbran, President, Southeast Arkansas College

Dr. Corbet Lamkin, Chancellor, Southern Arkansas University Tech

Ms. Deborah Frazier, Chancellor, University of Arkansas Community College at Batesville

Mr. Chris Thomason, Chancellor, University of Arkansas Community College at Hope \*

Dr. Larry D. Davis, Chancellor, University of Arkansas Community College at Morrilton

\* Presidents and Chancellors Executive Council Member

Appendix B: Regional Critical Economic Needs Programs (Universities)

	Regional Critical Needs
Inst	Title
ASUJ	Education
	Health Professions and Related Clinical Sciences
	Public Administration and Social Service Professions
ATU	Security and Protective Services
	Business, Management, Marketing, and Related Support Services
	Education
HSU	Biological and Biomedical Sciences
	Physical Science
	Education
SAUM	Agriculture, Agriculture Operations, and Related Sciences
	Liberal Arts and Sciences, General Studies & Humanities
	Health Professions and Related Clinical Sciences
UAF	Physical Science
	Engineering
	Biological and Biomedical Sciences
UAFS	Multi/Interdisciplinary Studies
	Health Professions and Related Clinical Sciences
	Security and Protective Services
UALR	Engineering
	Health Professions and Related Clinical Sciences
	Transfers to UAMS
UAM	Spatial Information Systems (GIS and Surveying)
	Natural Resources and Conservation
	Education
UAPB	Education
	Physical Science
	Security and Protective Services
UCA	Education
	Health Professions and Related Clinical Sciences
	Public Administration and Social Service Professions

# Appendix C: STEM Programs

The following page is an example provided from the STEM list. The list in its entirety may be found at the following website: <u>www.ice.gov/sevis/stemlist.htm</u>.

# STEM-Designated Degree Program List

# 2011 Revised List: Additions are in Bold

CIP Code	2010 CIP	Numeric Order CIP Code Title
Family	Code	Numeric Order CIF Code Title
1 1	01.0901	Animal Sciences, General
1	01.0902	Agricultural Animal Breeding
1	01.0903	Animal Health
1	01.0904	Animal Nutrition
1	01.0905	Dairy Science
1	01.0906	Livestock Management
1	01.0907	Poultry Science
1	01.1001	Food Science
1	01.1002	Food Technology and Processing
1	01.1101	Plant Sciences, General
1	01.1102	Agronomy and Crop Science
1	01.1103	Horticultural Science
1	01.1104	Agricultural and Horticultural Plant Breeding
1	01.1105	Plant Protection and Integrated Pest Management
1	01.1106	Range Science and Management
1	01.1201	Soil Science and Agronomy, General
1	01.1202	Soil Chemistry and Physics
1	01.1203	Soil Microbiology
3	03.0104	Environmental Science
3	03.0502	Forest Sciences and Biology
3	03.0509	Wood Science and Wood Products/Pulp and Paper Technology
9	09.0702	Digital Communication and Media/Multimedia
10	10.0304	Animation, Interactive Technology, Video Graphics and Special
		Effects
11	11.0101	Computer and Information Sciences, General
11	11.0102	Artificial Intelligence
11	11.0103	Information Technology
11	11.0104	Informatics
11	11.0201	Computer Programming/Programmer, General
11	11.0202	Computer Programming, Specific Applications
11	11.0203	Computer Programming, Vendor/Product Certification
11	11.0301	Data Processing and Data Processing Technology/Technician
11	11.0401	Information Science/Studies
11	11.0501	Computer Systems Analysis/Analyst
11	11.0701	Computer Science
11	11.0801	Web Page, Digital/Multimedia and Information Resources Design

# Appendix D: High Demand Programs

The following page is an example provided from the High Demand Programs list. The list in its entirety may be found at the following website:

www.discoverarkansas.net/article.asp?ARTICLEID=407&PAGEID=67&SUBID=120.

# ADWS List of High Demand Occupations

44.001       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01       20.01    <	socura	cip2010_co	cip2010tit
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Random         82.0001           Stand		52.0101	Business/Commerce, General.
Randeral and Operations Managers     82,0001       General and Operations Managers     82,0001       General and Operations Managers     82,0001       Example     <		52.0201	Business Administration and Management, General.
I contract     22,1001       I contract     24,001       I contract     22,001       I contract     21,001       I contract <t< td=""><td></td><td>52.0701</td><td>Entrepreneurship/Entrepreneurial Studies.</td></t<>		52.0701	Entrepreneurship/Entrepreneurial Studies.
Indext     82,1001       General and Operations Manapers     82,1001       Indext     82,1001       Indext     82,0001       Indext     82,0001    <		52.0801	Finance, General.
Centeral and Operations Managets     30, 1301       Centeral and Operations Managets     31, 2001       Centeral and Operations Managets     32, 2001       Centeral and Operations Managets     32, 2001       Centeral and Operations Managets     32, 2001       Marketing Managets     44, 0501       Marketing Managets     14, 0501       Marketing Managets     14, 0501       Marketing Managets     14, 0501       Sales Managets     19, 0203       Sales Managets     11, 0101       Marketing Managets     11, 0101       Computer and Information Systems Managets     22, 1401       Computer and Information Systems Managets     22, 1401       Computer and Information Systems Managets     11, 1001       Financial Managets     11, 1001       Managets     22, 1401       Computer and Information Systems Managets     22, 1401       Computer and Information Systems Managets     22, 1401       Computer and Information Systems Managets     11, 1001       Financial Managets     22, 2001       Sales Managets     22, 2001       Computer and Information Systems Managets     22, 2001       Financial Managets     11, 1001       Financial Managets     21, 2005       Financial Managets     22, 2001       Financial Managets		52.1101	International Business/Trade/Commerce.
Analgers         4001           Central and Operations Managers         2001           2011         2010           2011         2010           2011         2010           2011         2010           2011         2010           2011         2010           2011         2010           2011         2011           2011         2011           2011         2011           2011         2011           2011         2011           2011         2011           2011         2014           2011         2014           2011         2014           2011         2014           2011         2014           2011         2014           2011         2014           2011         2014           2011         2014           2011         2014           2011         2014           2014         2014           2014         2014           2014         2014           2014         2014           2014         2014           2014         2014 <td>-</td> <td>52.1301</td> <td>Management Science.</td>	-	52.1301	Management Science.
44.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001       20.001 <td< td=""><td>-</td><td>31.0399</td><td>Parks, Recreation and Leisure Facilities Management. Other.</td></td<>	-	31.0399	Parks, Recreation and Leisure Facilities Management. Other.
1000000000000000000000000000000000000		44.0401	Public Administration.
52.0201           52.0201           52.0101           52.0101           52.0101           52.0101           52.0101           52.0101           52.0101           52.0101           52.0101           52.0101           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011           52.011		52.0101	Business/Commerce, General.
Subsect         52.071           Lepisators         52.071           Antelling Managers         52.0101           Markelling Managers         19.0203           Markelling Managers         19.0203           Markelling Managers         19.0203           Sales Managers         51.011           Sales Managers         19.0201           Sales Managers         51.011           Sales Managers         19.0201           Administrative Services Managers         51.011           Computer and Information Systems Managers         51.011           Sales Managers         52.0201		52.0201	Business Administration and Management, General.
52.001       52.001       40.001       52.101       52.101       52.101       52.101       52.101       52.101       52.101       51.2011       51.2011       52.102       51.2011       52.101       52.101       52.101       52.101       52.102       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.101       52.102       52.102       52.101       52.102       52.102       52.102       52.102       52.102		52.0212	Retail Management.
52.0001         52.0001           52.1301         52.1301           Markeling Manngers         44.0501           Markeling Manngers         19.0203           Markeling Manngers         19.0203           Sales Manngers         19.0203           Sales Manngers         19.0203           Administrative Services Manngers         51.2011           Sales Manngers         51.2011           Markeling Mannelers         51.2011           Sales Mannelers         51.2011           Sales Mannelers         51.2011           Sales Mannelers         51.10101           Sales Mannelers		52.0701	Entrepreneurship/Entrepreneurial Studies.
42.1301         52.1101           Legistators         52.1301           Marketing Managers         51.2011           Marketing Managers         51.2011           Sales Managers         52.1402           Sales Managers         52.1402           Sales Managers         52.1401           Sales Managers         52.1401           Sales Managers         52.1401           Sales Managers         52.1401           Sales Managers         52.001           Sales Managers         52.001 <t< td=""><td></td><td>52.0801</td><td>Finance, General.</td></t<>		52.0801	Finance, General.
Legistations     42.0301       Marketing Managers     42.0301       Marketing Managers     19.0203       Fit 2011     52.1401       Sales Managers     51.2011       Sales Managers     51.2011       Sales Managers     19.0203       Sales Managers     11.0101       Sales Managers     11.0101       Sales Managers     11.0103       Mathistrative Services Managers     11.0103       Mathist		52.1101	International Business/Trade/Commerce.
Legistators         44.0401           Markeling Managers         44.0401           Markeling Managers         19.0303           Markeling Managers         51.2011           Sales Managers         51.2011           Computer and Information Systems Managers         51.0011           Computer and Information Systems Managers         51.0011           Computer and Information Systems Managers         52.0101           Computer and Information Systems Managers         51.0011           Computer and Information Systems Managers         11.0005           Exanct         52.0205           Science         52.0205           Science         52.0205           Science         52.0205           Science         52.0205           Managers         11.0005           Flaancial Managers         11.0005           Flaancial Managers         52.0206           Science         52.0206           Science         52.0206           Science         52		52.1301	Management Science.
Adritecting Managers     44.0501       Harketing Managers     19.0203       19.0205     51.2011       52.1407     52.1403       52.1403     52.1403       52.1403     52.1403       52.1403     52.1403       52.1403     52.1403       52.1403     52.1403       52.1403     52.1403       52.1401     52.1401       52.1401     52.0101       52.1401     52.0101       52.1401     52.0101       52.0101     52.0201       52.0101     52.0201       52.0101     52.0201       52.0101     52.0201       52.0101     52.0201       52.0101     52.0201       52.0201     52.0201       52.0201     52.0201       52.0201     52.0201       52.0201     52.0201       52.0201     52.0201       52.0201     52.0201       52.0201     52.0201       52.0201     52.0201       52.0201     52.0201       52.0201     52.0201       52.0201     52.0201       52.0201     52.0201       52.0201     52.0201       52.0201     52.0201       52.0201     52.0201       52.0201 <td>Legistators</td> <td>44.0401</td> <td>Public Administration.</td>	Legistators	44.0401	Public Administration.
Markeling Managers     19.0203       Markeling Managers     19.0205       Ex.1401     51.2011       Sales Managers     51.2011       Sales Managers     52.1402       Sales Managers     52.1403       Sales Managers     52.1403       Sales Managers     52.1401       Sales Managers     19.0203       Sales Managers     52.1401       Sales Managers     11.2011       Sales Managers     51.0711       Sales Managers     11.0101       Mathilstrative Services Managers     51.0711       Scool     52.0201       Sales Managers     51.0711       Sales Managers     11.0101       Mathilstrative Services Managers     11.0101       Mathilstrative Services Managers     51.0711       Scool     52.0201       Sales Managers     11.0101       Sales Managers     52.0201       Sales Managers     52.0201       Sales Managers     52.0201       Mathilstrative Services Managers     11.0101       Haracial Managers     52.0201       Sales Managers     52.0205       Sales Managers     52.0205       Sales Managers     52.0205       Sales Managers     52.0205       Managers     52.0205		44.0501	Public Policy Analysis, General.
190005         11001         11001         11001         11001         11001         11001         11001         11001         11001         11001         11001         11001         11001         11001         11001         11001         11001         11001         11001         11001         11001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001         111001      <	Marketing Managers	19.0203	Consumer Merchandising/Retailing Management.
51.2011       51.2011         52.1403       52.1403         52.1403       52.1403         52.1403       52.1403         52.1403       52.1403         52.1403       52.1403         52.1403       52.1403         52.1403       52.1403         52.1401       52.1401         52.1401       52.1401         52.1401       52.1401         52.1401       52.0101         52.1401       52.0101         52.1401       52.0101         52.1401       52.0101         52.1401       52.0101         52.0101       52.0101         52.0101       52.0101         52.0101       52.0101         52.0101       52.0101         52.0101       52.0202         52.0101       52.0202         52.0101       52.0202         52.0101       52.0202         52.0101       52.0202         52.0101       52.0202         52.1201       52.1201         52.1201       52.1201         52.1201       52.1201         52.1201       52.1201         52.1202       52.1201		19.0905	Apparel and Textile Marketing Management.
52.1401       52.1401         52.1492       52.1493         52.1493       52.1493         52.1493       52.1493         52.1493       52.1493         52.1493       52.1493         52.1493       52.0101         52.0101       52.0101         52.0101       52.0101         52.0101       52.0101         52.0101       52.0101         52.0101       52.0101         52.0101       52.0101         52.0101       52.0101         52.0101       52.0201         52.0101       52.0201         52.0101       52.0201         52.0101       52.0201         52.0101       52.0201         52.0101       52.0201         52.0101       52.0201         52.0101       52.0201         52.0201       52.0201         52.0201       52.0201         52.0201       52.0201         52.0201       52.0201         52.0201       52.0201         52.0201       52.0201         52.0201       52.0201         52.0201       52.0201         52.0202       52.0201		51.2011	Pharmaceutical Marketing and Management
52.1402         52.1403           54.1403         51.211           52.1403         51.2011           52.1403         51.2011           52.1403         51.2011           52.001         52.001           52.001         52.001           52.001         52.001           52.001         52.001           52.001         52.001           52.001         52.001           52.001         52.001           52.001         52.001           52.001         52.001           52.001         52.001           52.001         52.001           52.001         52.001           52.001         52.001           52.101         52.100           52.101         52.100           52.102         52.100           52.103         52.100           52.104         52.100           52.105         52.100           52.106         52.100           52.107         52.100           52.108         52.100           52.109         52.100           52.100         52.100           52.100         52.100           52.1		52.1401	Marketing/Marketing Management. General.
52.1403         Sales Managers       19.021         Sales Managers       19.021         Sales Managers       19.0201         Sales Managers       19.0201         Sales Managers       19.0201         Sales Managers       51.2011         Sales Managers       51.2011         Administrative Services Managers       51.0711         Administrative Services Managers       51.0711         Computer and Information Systems Managers       51.0711         Computer and Information Systems Managers       11.0701         Interview       52.0201         Sales       52.0204         Sales       52.0204         Sales       52.0204         Sales       52.0204         Sales       <		52.1402	Markeling Research.
Sales Managers       52,1499         Sales Managers       51,0111         Seles Managers       51,0011         Administrative Services Managers       51,0011         Administrative Services Managers       51,0101         Computer and Information Systems Managers       51,0101         Computer and Information Systems Managers       52,000         Computer and Information Systems Managers       11,0103         Introduct       11,0103         Introduct       52,000         Science       52,000		52.1403	International Marketing.
Sales Managers       19.0203         Sales Managers       51.2011         Sales Managers       51.2011         Administrative Services Managers       52.1401         Administrative Services Managers       52.1401         Computer and Information Systems Managers       11.0101         Computer and Information Systems Managers       11.0101         Intropo       11.0101         Intropo       11.0001		52.1499	Markeling. Other
51.2011       51.2011         52.1001       52.0101         52.1001       52.0101         52.1001       52.0101         52.0101       52.0101         52.0101       52.0101         52.0101       52.0101         52.0101       52.0101         52.0101       52.0201         52.0101       52.0201         52.0101       52.0201         52.0101       52.0205         52.0101       11.0103         11.0103       11.0103         11.0103       11.0001         11.0103       11.0003         11.0103       11.0003         11.0103       11.0003         11.0103       11.0003         11.0103       11.0003         11.0103       11.0003         11.0103       11.0003         11.0103       11.0003         11.0103       11.0003         11.0103       11.0003         11.0103       11.0003         11.0103       11.0003         11.0103       11.0003         11.0103       11.0003         11.0103       11.0003         11.0103       11.0003	Sales Managers	19.0203	Consumer Merchandisinn/Relation Mananement
S2.0101       52.0101         S2.0101       52.0201         S2.0101       52.0202         S2.0101       11.0103         Nonuter and Information Systems Managers       11.0103         Computer and Information Systems Managers       11.0001         Computer and Information Systems Managers       11.0001         Nonuter and Information Systems Managers       11.0005         S2.0201       52.0201         S2.0203       52.0203         S2.0204       52.0203         S2.0205       52.0203         Managers       52.0203         Industrial Production Managers       52.0203         S2.0204       52.0203		51.2011	Pharmaceutical Marketing and Management
S2.0201       52.1401         Administrative Services Managers       52.1401         S2.011       52.0201         S2.011       52.0201         S2.0201       52.0202         S2.0202       52.0202         S2.0203       11.0103         Nonputer and Information Systems Managers       11.0103         Computer and Information Systems Managers       11.0103         Description Systems Managers       11.0103         Nonputer and Information Systems Managers       11.000         Description Systems Managers       11.000         Description Systems Managers       11.000         Description Systems Managers       11.000         S2.0201       52.020         S2.0202       52.020         S2.0203       52.020         S2.0204       52.020         S2.0205       52.0206         S2.0206       52.0206		52.0101	Business/Commerce. General.
Administrative Services Managers       52.1401         Administrative Services Managers       51.0711         S.2.0101       52.0202         S.2.0101       52.0202         S.2.0101       52.0202         Computer and Information Systems Managers       11.0101         Computer and Information Systems Managers       11.0101         Computer and Information Systems Managers       11.0101         Internet       11.0101         Internet       11.0101         Internet       11.001		52.0201	Business Administration and Management. General
Administrative Services Managers     51.0711       52.0001     52.0001       52.0002     52.0001       52.0001     52.0001       52.0001     11.0101       11.0101     11.0101       11.0101     11.0101       11.0101     11.0101       11.0101     11.0101       11.0101     11.0101       11.0101     11.0001       11.0101     11.0001       11.0102     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001     11.0001       11.0001 </td <td></td> <td>52.1401</td> <td>Marketing/Marketing Management. General.</td>		52.1401	Marketing/Marketing Management. General.
S2.0101       52.0201         S2.0201       52.0201         S2.0201       52.0201         S2.0201       11.0103         Number       11.0103         Number       11.0103         Number       11.0103         Number       11.003         Number       11.003 <tr< td=""><td>Administrative Services Managers</td><td>51.0711</td><td>Medical/Health Manapement and Clinical Assistant/Specialist.</td></tr<>	Administrative Services Managers	51.0711	Medical/Health Manapement and Clinical Assistant/Specialist.
S2.0201       52.0202         Computer and Information Systems Managers       11.0103         Financial Managers       52.0205         Financial Managers       52.0205         Financial Managers       52.0206         Financial Production Managers       52.0806         Findustrial Production Managers       52.0806         Findustrial Production Managers       14.3501		52.0101	Business/Commerce, General.
Computer and Information Systems Managers       32.0202         I1.0101       11.0101         I1.0101       11.0101         I1.0101       11.0101         I1.0101       11.0001         I1.0101       11.0001<		52.0201	Business Administration and Management, General.
Computer and Information Systems Managers         11.0101           11.0701         11.0701           11.0701         11.0701           11.0701         11.1003           11.1003         11.1003           11.1003         11.1003           11.1003         11.1003           11.1003         11.1003           11.1003         11.1003           11.1003         11.1003           11.1003         11.1003           11.1003         11.1003           11.1003         11.1003           11.1003         11.1003           11.1003         11.1003           11.1003         11.1003           11.1003         11.1003           11.1003         11.1003           11.1003         11.1003           11.1003         11.1003           11.1003         11.1003           11.1004         11.1003           11.1005         11.1003           11.1004         11.1003           11.1005         11.1005           11.1005         11.1005           11.1005         11.1005           11.1005         11.1005           11.1005         11.1005		52.0202	Purchasing, Procurement/Acquisitions and Contracts Management.
11.0103         11.0401         11.0401         11.0401         11.0103         11.0103         11.0103         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003         11.003 <td< td=""><td>Computer and Information Systems Managers</td><td>11.0101</td><td>Computer and Information Sciences, General.</td></td<>	Computer and Information Systems Managers	11.0101	Computer and Information Sciences, General.
11.001         11.001         11.003         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.103         11.104		11.0103	Information Technology.
11.10/01         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05         11.10/05		11.0401	Information Science/Studies.
11.1001         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1003         11.1004         11.1004         11.1004         11.1004         11.1004         11.1004         11.1004         11.1004         11.1004         11.1004         11.1004         11.1004         11.1004          11.1004          11.1004		11.0701	Computer Science.
Int. 1003         Int. 1005         Introntial Managers         Introttial Production Managers		11.1001	Network and System Administration/Administrator.
Financial Managers       52.0304         Financial Managers       52.0306         Financial Production Managers       52.0304		11.1003	Computer and Information Systems Security/Information Assurance.
57.1201         57.1205         57.1206         57.1206         57.1206         57.1206         52.1206         52.1206         52.1206         52.1206         52.1206         52.0304         52.0304         52.0304         52.0304         52.0304         52.0306         52.0306         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308         52.0308 <td< td=""><td></td><td>52 0205</td><td>Intromations Lectinology Project Management. Organizations Management and Supposition</td></td<>		52 0205	Intromations Lectinology Project Management. Organizations Management and Supposition
52.1205         52.1205           Financial Managers         52.1207           Financial Managers         52.0304           52.0305         52.0305           52.0305         52.0806           52.0806         52.0808           52.0806         52.0808           52.0806         52.0808           52.0806         52.0808           52.0806         52.0808           52.0806         52.0808           52.0806         52.0808           52.0806         52.0808           52.0806         52.0808           52.0806         52.0808           52.0806         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808		52 1201	Versions management and volter value. Manament Information Sectors value.
Financial Managers         52.1207           Financial Managers         52.0304           52.0305         52.0305           52.0306         52.0806           52.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806           62.0806         52.0806		52.1206	Information Resources Mananement
Financial Managers         52.0304           52.0305         52.0305           52.0305         52.0305           52.0806         52.0806           52.0806         52.0808           52.0806         52.0808           52.0806         52.0808           52.0806         52.0808           10.0817         52.0808           10.0817         14.3501		52.1207	Knowledge Management
52.0305         52.0305           52.0801         52.0801           52.0806         52.0808           52.0808         52.0808           52.0809         52.0809           10.ustrial Production Managers         14.3501	Financial Managers	52.0304	
52.0801         52.0801           52.0806         52.0806           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808           52.0808         52.0808		52.0305	Accounting and Business/Mananement
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52.0809 52.0899 Industrial Production Managers 14.3501		52.0808	Public Finance.
52.0899 1ndustrial Production Managers 14.3501		52.0809	Credit Management.
Industrial Production Managers 14.3501		52.0899	Finance and Financial Management Services, Other.
	Industrial Production Managers	14.3501	Industrial Engineering.
		15.1501	Engineering/Industrial Management.
		52.0101	Business/Commerce, General.
52.0201 Business Administration and Managem		52.0201	Business Administration and Management, General.

Appendix E: Act 1203 of 2011

# DRAFT 11/07/11

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Stricken language would be deleted from and underlined language would be added to present law. Act 1203 of the Regular Session

1	State of Arkansas	As Engrossed: \$3/21/11	
2	88th General Assembly	A Bill	
3	Regular Session, 2011		SENATE BILL 766
4			
5	By: Senators G. Baker, J. K	ey	
6	By: Representative J. Roebu	uck	
7			
8		For An Act To Be Entitled	
9	AN ACT TO	O PROMOTE ACCOUNTABILITY AND EFFICIENCY	AT
10	STATE-SU	PPORTED INSTITUTIONS OF HIGHER EDUCATION	; TO
11	CLARIFY 1	FUNDING FORMULA CALCULATIONS FOR STATE-	
12	SUPPORTE	D INSTITUTIONS OF HIGHER EDUCATION; TO	
13	DECLARE	AN EMERGENCY; AND FOR OTHER PURPOSES.	
14			
15			
16		Subtitle	
17	ТО	CLARIFY FUNDING FORMULA CALCULATIONS	
18	FOR	STATE-SUPPORTED INSTITUTIONS OF	
19	HIG	HER EDUCATION AND TO DECLARE AN	
20	EME	RGENCY.	
21			
22			
23	BE IT ENACTED BY THE	GENERAL ASSEMBLY OF THE STATE OF ARKANS.	AS:
24			
25	SECTION 1. Ar	kansas Code § 6-61-223 is repealed.	
26	<del>6-61-223. Fun</del>	ding formula — Arkansas Higher Education	-Coordinating
27	Board.		
28	<del>(a) The Arkan</del>	sas Higher Education Coordinating Board	will work with
29	the state college and	d university Presidents Council to revie	w, revise, and
30	develop funding form	ulas which will, in principle, seek to p	<del>rovide fair and</del>
31	equitable state supp	ort to all postsecondary students across	the state,
32	<del>regardless of the st</del>	ate institution attended, while at the s	a <del>me time</del>
33	<pre>recognizing:</pre>		
34	<del>(1) The</del>	different needs for lower level, upper	<del>level, and</del>
35	<del>graduate level instru</del>	uction at the various institutions;	
36	<del>(2) The</del>	requirements for specialized equipment,	-labs, and



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SB766

1	smaller class sizes in some disciplines; and
2	(3) Unique missions such as agricultural extension services,
3	research, medical sciences, workforce development, and public service; and
4	(4) Growth, economies of scale, and other appropriate factors.
5	(b) The formulas will be developed in consensus with the state college
6	and university President's Council and presented to the Joint Budget
7	Committee for review.
8	
9	SECTION 2. Arkansas Code § 6-61-224 is amended to read as follows:
10	6-61-224. Funding formula — Department of Higher Education.
11	(a) The Department of Higher <del>Education will work</del> <u>Education, in</u>
12	<u>collaboration</u> with the state college and university <del>Presidents Council to</del>
13	<del>review, revise, and</del> presidents and chancellors, shall develop funding
14	formulas consisting of a needs-based component and an outcome-centered
15	component which will, in principle, seek to provide fair and equitable state
16	support to all postsecondary students across the state, regardless of the
17	state institution attended, while at the same time recognizing:
18	(1) The different needs for lower level, upper level, and
19	graduate level instruction at the various institutions;
20	(2) The requirements for specialized equipment, labs, and
21	smaller class sizes in some disciplines;
22	(3) Unique missions such as agricultural extension services,
23	research, medical sciences, workforce development, and public service; and
24	(4) Growth, economies of scale, and other appropriate factors.
25	(b) <u>(1)</u> The <u>funding</u> formulas <del>will be developed in consensus with the</del>
26	state college and university President's Council and presented to the
27	Arkansas Higher Education Coordinating Board and the Joint Budget Committee
28	for review for two-year colleges and universities shall be comprised of a
29	needs-based component under § 6-61-228(b)-(m) and § 6-61-229(b)-(m) and an
30	outcome-centered component.
31	(2) The outcome-centered component shall constitute twenty-five
32	percent (25%) of funding for two-year colleges and universities by the 2017-
33	2018 school year and shall be phased in at a rate five percent (5%) per year
34	beginning in the 2013-2014 school year.
35	(3) The needs-based component shall constitute seventy-five
36	percent (75%) of funding for two-year colleges and universities by the 2017-

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25 <u>to the President Pro Tempore of the Senate, the Speaker of the House of</u> 26 <u>Representatives, and the Governor.</u> 27 <u>(f) It is the intent of the General Assembly that the outcome-centere</u> 28 <u>component of funding formulas for two-year colleges and universities become</u> 29 <u>the primary component for funding purposes.</u>	1	2018 school year.
4       (d)(1) The outcome-centered component shall seek to promote and         5       increase the satisfactory progression, matriculation, and graduation of all         6       students enrolled in two-year colleges and universities.         7       (2) The department shall consider the unique factors of each         8       two-year college and university when developing the outcome-centered         9       component, including utilizing variables that may be weighted to reinforce         10       the mission of each two-year college and university and provide incentives         11       for increased credential production.         12       (3) The outcome-centered component may include without         13       limitation:         14       (A) End-of-course enrollment;         15       (B) Student retention;         16       (C) Student progression toward credential completion;         17       (D) Number of credentials awarded, including an emphasis         18       on high-demand credentials;         19       (E) Student transfer activity;         20       (F) Research activity; and         21       (G) Number of graduates from underserved populations.         22       (e) By December 31, 2011, the department shall present the funding         21       formulas approved by the Arkansas Higher Education Coordinating	2	(c) The outcome-centered component measures shall begin in the 2012-
5       increase the satisfactory progression, matriculation, and graduation of all         6       students enrolled in two-year colleges and universities.         7       (2) The department shall consider the unique factors of each         8       two-year college and university when developing the outcome-centered         9       component, including utilizing variables that may be weighted to reinforce         10       the mission of each two-year college and university and provide incentives         11       for increased credential production.         12       (3) The outcome-centered component may include without         13       limitation:         14       (A) End-of-course enrollment;         15       (B) Student retention;         16       (C) Student progression toward credential completion;         17       (D) Number of credentials awarded, including an emphasis         18       on high-demand credentials;         19       (E) Student transfer activity;         20       (F) Research activity; and         21       (G) Number of graduates from underserved populations.         22       (e) By December 31, 2011, the department shall present the funding         23       formulas approved by the Arkansas Higher Education Coordinating Board,         24       including both the needs-based component and the outcom	3	2013 school year, but may include outcomes from multiple previous years.
6students enrolled in two-year colleges and universities.7(2) The department shall consider the unique factors of each8two-year college and university when developing the outcome-centered9component, including utilizing variables that may be weighted to reinforce10the mission of each two-year college and university and provide incentives11for increased credential production.12(3) The outcome-centered component may include without13limitation:14(A) End-of-course enrollment;15(B) Student retention;16(C) Student progression toward credential completion;17(D) Number of credentials awarded, including an emphasis18on high-demand credentials;19(E) Student transfer activity;20(F) Research activity; and21(G) Number of graduates from underserved populations.22(e) By December 31, 2011, the department shall present the funding23formulas approved by the Arkansas Higher Education Coordinating Board,24including both the needs-based component and the outcome-centered component.25to the President Pro Tempore of the Senate, the Speaker of the House of26Representatives, and the Governor.27(f) It is the intent of the General Assembly that the outcome-centerer28component of funding formulas for two-year colleges and universities become29the primary component for funding purposes.	4	(d)(1) The outcome-centered component shall seek to promote and
(2) The department shall consider the unique factors of eachtwo-year college and university when developing the outcome-centeredcomponent, including utilizing variables that may be weighted to reinforcethe mission of each two-year college and university and provide incentivesfor increased credential production.initation:initation:(A) End-of-course enrollment;(B) Student retention;(C) Student progression toward credential completion;(D) Number of credentials awarded, including an emphasison high-demand credentials;(G) Number of graduates from underserved populations.(e) By December 31, 2011, the department shall present the fundingformulas approved by the Arkansas Higher Education Coordinating Board,including both the needs-based component and the outcome-centered component,(f) It is the intent of the General Assembly that the outcome-centeredcomponent of funding formulas for two-year colleges and universities becomethe primary component for funding purposes.	5	increase the satisfactory progression, matriculation, and graduation of all
8       two-year college and university when developing the outcome-centered         9       component, including utilizing variables that may be weighted to reinforce         10       the mission of each two-year college and university and provide incentives         11       for increased credential production.         12       (3) The outcome-centered component may include without         13       limitation:         14       (A) End-of-course enrollment;         15       (B) Student retention;         16       (C) Student progression toward credential completion;         17       (D) Number of credentials awarded, including an emphasis         18       on high-demand credentials;         19       (E) Student transfer activity;         20       (F) Research activity; and         21       (G) Number of graduates from underserved populations.         22       (e) By December 31, 2011, the department shall present the funding         23       formulas approved by the Arkansas Higher Education Coordinating Board,         24       including both the needs-based component and the outcome-centered component,         25       to the President Pro Tempore of the Senate, the Speaker of the House of         26       Representatives, and the Governor.         27       (f) It is the intent of the General Assembly that the outcome-	6	students enrolled in two-year colleges and universities.
9       component, including utilizing variables that may be weighted to reinforce         10       the mission of each two-year college and university and provide incentives         11       for increased credential production.         12       (3)       The outcome-centered component may include without         13       limitation:         14       (A)       End-of-course enrollment;         15       (B)       Student retention;         16       (C)       Student progression toward credential completion;         17       (D)       Number of credentials awarded, including an emphasis         18       on high-demand credentials;         19       (E)       Student transfer activity;         20       (F)       Research activity; and         21       (G)       Number of graduates from underserved populations.         22       (e)       By December 31, 2011, the department shall present the funding         23       formulas approved by the Arkansas Higher Education Coordinating Board,         24       including both the needs-based component and the outcome-centered component,         25       to the President Pro Tempore of the Senate, the Speaker of the House of         26       Representatives, and the Governor.         27       (f)       It is the intent of the Gene	7	(2) The department shall consider the unique factors of each
10the mission of each two-year college and university and provide incentives11for increased credential production.12(3) The outcome-centered component may include without13limitation:14(A) End-of-course enrollment;15(B) Student retention;16(C) Student progression toward credential completion;17(D) Number of credentials awarded, including an emphasis18on high-demand credentials;19(E) Student transfer activity;20(F) Research activity; and21(G) Number of graduates from underserved populations.22(e) By December 31, 2011, the department shall present the funding23formulas approved by the Arkansas Higher Education Coordinating Board,24including both the needs-based component and the outcome-centered component,25to the President Pro Tempore of the Senate, the Speaker of the House of26Representatives, and the Governor.27(f) It is the intent of the General Assembly that the outcome-centeree28component of funding formulas for two-year colleges and universities become29the primary component for funding purposes.	8	two-year college and university when developing the outcome-centered
11       for increased credential production.         12       (3) The outcome-centered component may include without         13       limitation:         14       (A) End-of-course enrollment;         15       (B) Student retention;         16       (C) Student progression toward credential completion;         17       (D) Number of credentials awarded, including an emphasis         18       on high-demand credentials;         19       (E) Student transfer activity;         20       (F) Research activity; and         21       (G) Number of graduates from underserved populations.         22       (e) By December 31, 2011, the department shall present the funding         23       formulas approved by the Arkansas Higher Education Coordinating Board,         24       including both the needs-based component and the outcome-centered component,         25       to the President Pro Tempore of the Senate, the Speaker of the House of         26       Representatives, and the Governor.         27       (f) It is the intent of the General Assembly that the outcome-centeree         28       component of funding formulas for two-year colleges and universities become         29       the primary component for funding purposes.	9	component, including utilizing variables that may be weighted to reinforce
12       (3) The outcome-centered component may include without         13       limitation:         14       (A) End-of-course enrollment;         15       (B) Student retention;         16       (C) Student progression toward credential completion;         17       (D) Number of credentials awarded, including an emphasis         18       on high-demand credentials;         19       (E) Student transfer activity;         20       (F) Research activity; and         21       (G) Number of graduates from underserved populations.         22       (e) By December 31, 2011, the department shall present the funding         23       formulas approved by the Arkansas Higher Education Coordinating Board,         24       including both the needs-based component and the outcome-centered component,         25       to the President Pro Tempore of the Senate, the Speaker of the House of         26       Representatives, and the Governor.         27       (f) It is the intent of the General Assembly that the outcome-centered         28       component of funding formulas for two-year colleges and universities become         29       the primary component for funding purposes.	10	the mission of each two-year college and university and provide incentives
13 <u>limitation:</u> 14       (A) End-of-course enrollment;         15       (B) Student retention;         16       (C) Student progression toward credential completion;         17       (D) Number of credentials awarded, including an emphasis         18       on high-demand credentials;         19       (E) Student transfer activity;         20       (F) Research activity; and         21       (G) Number of graduates from underserved populations.         22       (e) By December 31, 2011, the department shall present the funding         23       formulas approved by the Arkansas Higher Education Coordinating Board,         24       including both the needs-based component and the outcome-centered component,         25       to the President Pro Tempore of the Senate, the Speaker of the House of         26       Representatives, and the Governor.         27       (f) It is the intent of the General Assembly that the outcome-centered         28       component of funding formulas for two-year colleges and universities become         29       the primary component for funding purposes.	11	for increased credential production.
14(A) End-of-course enrollment;15(B) Student retention;16(C) Student progression toward credential completion;17(D) Number of credentials awarded, including an emphasis18on high-demand credentials;19(E) Student transfer activity;20(F) Research activity; and21(G) Number of graduates from underserved populations.22(e) By December 31, 2011, the department shall present the funding23formulas approved by the Arkansas Higher Education Coordinating Board,24including both the needs-based component and the outcome-centered component,25to the President Pro Tempore of the Senate, the Speaker of the House of26Representatives, and the Governor.27(f) It is the intent of the General Assembly that the outcome-centered28component of funding formulas for two-year colleges and universities become29the primary component for funding purposes.	12	(3) The outcome-centered component may include without
15(B) Student retention;16(C) Student progression toward credential completion;17(D) Number of credentials awarded, including an emphasis18on high-demand credentials;19(E) Student transfer activity;20(F) Research activity; and21(G) Number of graduates from underserved populations.22(e) By December 31, 2011, the department shall present the funding23formulas approved by the Arkansas Higher Education Coordinating Board,24including both the needs-based component and the outcome-centered component,25to the President Pro Tempore of the Senate, the Speaker of the House of26Representatives, and the Governor.27(f) It is the intent of the General Assembly that the outcome-centered28component of funding formulas for two-year colleges and universities become29the primary component for funding purposes.	13	<u>limitation:</u>
16       (C) Student progression toward credential completion;         17       (D) Number of credentials awarded, including an emphasis         18       on high-demand credentials;         19       (E) Student transfer activity;         20       (F) Research activity; and         21       (G) Number of graduates from underserved populations.         22       (e) By December 31, 2011, the department shall present the funding         23       formulas approved by the Arkansas Higher Education Coordinating Board,         24       including both the needs-based component and the outcome-centered component,         25       to the President Pro Tempore of the Senate, the Speaker of the House of         26       Representatives, and the Governor.         27       (f) It is the intent of the General Assembly that the outcome-centered         28       component of funding formulas for two-year colleges and universities become         29       the primary component for funding purposes.	14	(A) End-of-course enrollment;
17       (D) Number of credentials awarded, including an emphasis         18       on high-demand credentials;         19       (E) Student transfer activity;         20       (F) Research activity; and         21       (G) Number of graduates from underserved populations.         22       (e) By December 31, 2011, the department shall present the funding         23       formulas approved by the Arkansas Higher Education Coordinating Board,         24       including both the needs-based component and the outcome-centered component,         25       to the President Pro Tempore of the Senate, the Speaker of the House of         26       Representatives, and the Governor.         27       (f) It is the intent of the General Assembly that the outcome-centered         28       component of funding formulas for two-year colleges and universities become         29       the primary component for funding purposes.	15	(B) Student retention;
18       on high-demand credentials;         19       (E) Student transfer activity;         20       (F) Research activity; and         21       (G) Number of graduates from underserved populations.         22       (e) By December 31, 2011, the department shall present the funding         23       formulas approved by the Arkansas Higher Education Coordinating Board,         24       including both the needs-based component and the outcome-centered component,         25       to the President Pro Tempore of the Senate, the Speaker of the House of         26       Representatives, and the Governor.         27       (f) It is the intent of the General Assembly that the outcome-centered         28       component of funding formulas for two-year colleges and universities become         29       the primary component for funding purposes.	16	(C) Student progression toward credential completion;
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20(F) Research activity; and21(G) Number of graduates from underserved populations.22(e) By December 31, 2011, the department shall present the funding23formulas approved by the Arkansas Higher Education Coordinating Board,24including both the needs-based component and the outcome-centered component,25to the President Pro Tempore of the Senate, the Speaker of the House of26Representatives, and the Governor.27(f) It is the intent of the General Assembly that the outcome-centere28component of funding formulas for two-year colleges and universities become29the primary component for funding purposes.	18	<u>on high-demand credentials;</u>
21(G) Number of graduates from underserved populations.22(e) By December 31, 2011, the department shall present the funding23formulas approved by the Arkansas Higher Education Coordinating Board,24including both the needs-based component and the outcome-centered component,25to the President Pro Tempore of the Senate, the Speaker of the House of26Representatives, and the Governor.27(f) It is the intent of the General Assembly that the outcome-centered28component of funding formulas for two-year colleges and universities become29the primary component for funding purposes.	19	<u>(E) Student transfer activity;</u>
22(e) By December 31, 2011, the department shall present the funding23formulas approved by the Arkansas Higher Education Coordinating Board,24including both the needs-based component and the outcome-centered component,25to the President Pro Tempore of the Senate, the Speaker of the House of26Representatives, and the Governor.27(f) It is the intent of the General Assembly that the outcome-centere28component of funding formulas for two-year colleges and universities become29the primary component for funding purposes.	20	(F) Research activity; and
23 formulas approved by the Arkansas Higher Education Coordinating Board, 24 including both the needs-based component and the outcome-centered component, 25 to the President Pro Tempore of the Senate, the Speaker of the House of 26 Representatives, and the Governor. 27 (f) It is the intent of the General Assembly that the outcome-centere 28 component of funding formulas for two-year colleges and universities become 29 the primary component for funding purposes.	21	(G) Number of graduates from underserved populations.
24 <u>including both the needs-based component and the outcome-centered component,</u> 25 <u>to the President Pro Tempore of the Senate, the Speaker of the House of</u> 26 <u>Representatives, and the Governor.</u> 27 <u>(f) It is the intent of the General Assembly that the outcome-centere</u> 28 <u>component of funding formulas for two-year colleges and universities become</u> 29 <u>the primary component for funding purposes.</u>	22	(e) By December 31, 2011, the department shall present the funding
25 <u>to the President Pro Tempore of the Senate, the Speaker of the House of</u> 26 <u>Representatives, and the Governor.</u> 27 <u>(f) It is the intent of the General Assembly that the outcome-centere</u> 28 <u>component of funding formulas for two-year colleges and universities become</u> 29 <u>the primary component for funding purposes.</u>	23	formulas approved by the Arkansas Higher Education Coordinating Board,
26 <u>Representatives, and the Governor.</u> 27 <u>(f) It is the intent of the General Assembly that the outcome-centere</u> 28 <u>component of funding formulas for two-year colleges and universities become</u> 29 <u>the primary component for funding purposes.</u>	24	including both the needs-based component and the outcome-centered component,
27 <u>(f) It is the intent of the General Assembly that the outcome-centere</u> 28 <u>component of funding formulas for two-year colleges and universities become</u> 29 <u>the primary component for funding purposes.</u>	25	to the President Pro Tempore of the Senate, the Speaker of the House of
<ul> <li>28 <u>component of funding formulas for two-year colleges and universities become</u></li> <li>29 <u>the primary component for funding purposes.</u></li> </ul>	26	<u>Representatives, and the Governor.</u>
29 <u>the primary component for funding purposes.</u>	27	(f) It is the intent of the General Assembly that the outcome-centered
	28	component of funding formulas for two-year colleges and universities become
30	29	the primary component for funding purposes.
	30	
31 SECTION 3. Arkansas Code § 6-61-228(a), concerning the broad goals fo	31	SECTION 3. Arkansas Code § 6-61-228(a), concerning the broad goals for
32 higher education funding, is amended to add additional subdivisions to read	32	higher education funding, is amended to add additional subdivisions to read
33 as follows:	33	as follows:
34 (a)(1) The funding formula model for universities shall serve as a	34	(a)(l) The funding formula model for universities shall serve as a
35 tool <u>framework</u> for implementing the broad goals of the State of Arkansas and	35	tool <u>framework</u> for implementing the broad goals of the State of Arkansas and
36 the Arkansas Higher Education Coordinating Board.	36	the Arkansas Higher Education Coordinating Board.

3

SB766

1	(2) The model shall ensure adequate, equitable, and stable
2	funding and be based on reliable and uniform data.
3	(3) The model shall be simple to understand, sensitive to
4	universities' differing missions, and responsive to changes within the
5	universities and shall make provisions for special-purpose units.
6	(4) The model shall hold universities accountable for increasing
7	the educational attainment levels of Arkansas citizens by:
8	(A) Addressing the state's economic development and work
9	force needs;
10	(B) Promoting increased degree production while
11	maintaining a high level of rigor; and
12	(C) Acknowledging the unique mission of each university
13	and allowing for collaboration and minimal redundancy in degree offerings and
14	competitive research.
15	(5) The model shall promote a seamless and integrated system of
16	postsecondary education designed to meet the needs of all students.
17	(6) The model shall address institutional accountability for the
18	quality of instruction and student learning, including remedial instruction.
19	
20	SECTION 4. Arkansas Code § 6-61-228, concerning an outcome-centered
21	funding formula, is amended to add additional subsections to read as follows:
22	(o)(1) By December 31, 2011, the Arkansas Higher Education
23	Coordinating Board shall develop an outcome-centered funding formula model
24	that implements the broad goals for the state in subsection (a) of this
25	section and seeks to promote and increase the satisfactory progression,
26	matriculation, and graduation of all students enrolled in state-supported
27	institutions of higher education.
28	(2) The outcome-centered funding formula model shall take into
29	consideration, at a minimum:
30	(A) Course completion;
31	(B) Degree completion;
32	(C) Critical needs shortage areas;
33	(D) Minority students;
34	
	(E) Economically disadvantaged students; and
35	(E) Economically disadvantaged students; and (F) Nontraditional students.

SB766

# l <u>calculated</u> at:

1	
2	(A) Ninety-five percent (95%) under the funding formula
3	model under subsections (b)-(m) of this section and five percent (5%) on the
4	outcome-centered funding formula model for the 2013-2014 school year;
5	(B) Ninety percent (90%) under the funding formula model
6	under subsections (b)-(m) of this section and ten percent (10%) on the
7	outcome-centered funding formula model for the 2014-2015 school year;
8	(C) Eighty-five percent (85%) under the funding formula
9	model under subsections (b)-(m) of this section and fifteen percent (15%) on
10	the outcome-centered funding formula model for the 2015-2016 school year; and
11	(D) Eighty percent (80%) under the funding formula model
12	under subsections (b)-(m) of this section and twenty percent (20%) on the
13	outcome-centered funding formula model for the 2016-2017 school year.
14	(2) Beginning in the 2017-2018 school year, university funding
15	shall be based seventy-five percent (75%) under the funding formula model
16	under subsections (b)-(m) of this section and twenty-five percent (25%) on
17	the outcome-centered funding formula model.
18	
19	SECTION 5. Arkansas Code § 6-61-229(a), concerning the funding formula
20	model for two-year colleges, is amended to read as follows:
21	(a) The funding formula model for two-year colleges shall:
22	(1) Serve as a <del>tool</del> <u>framework</u> for implementing the broad goals
23	of the State of Arkansas and the Arkansas Higher Education Coordinating
24	Board;
25	(2) Be based on reliable and uniform data;
26	(3) Be simple to understand, sensitive to colleges' differing
27	missions, and responsive to changes within them; and
28	<del>(4)</del> Make provisions for special-purpose units <u>;</u>
29	(4) Hold two-year colleges accountable for increasing the
30	educational attainment levels of Arkansas citizens by:
31	(A) Addressing the state's economic development and work-
32	force needs;
33	(B) Promoting increased certificate and degree production
34	while maintaining a high level of rigor; and
35	(C) Acknowledging the unique mission of each two-year
36	college and allowing for collaboration and minimal redundancy in degree

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As Engrossed: S3/21/11

SB766

1	offerings and certificates;		
2	(5) Promote a seamless and integrated system of postsecondary		
3	education designed to meet the needs of all students; and		
4	(6) Address institutional accountability for the quality of		
5	instruction and student learning, including remedial instruction.		
6			
7	SECTION 6. Arkansas Code § 6-61-229(p), concerning the outcome-		
8	centered funding formula, is amended to read as follows:		
9	(p) Notwithstanding the provisions of this section, each two-year		
10	college shall receive a minimum base funding equal to the greater of three		
11	million dollars (\$3,000,000) per fiscal year or an amount equal to the		
12	previous year's funding per fiscal year (1) By December 31, 2011, the		
13	Arkansas Higher Education Coordinating Board shall develop an outcome-		
14	centered funding formula model that implements the board goals for the state		
15	in subsection (a) of this section and seeks to promote and increase the		
16	satisfactory progression, matriculation, and graduation of all students		
17	enrolled in state-supported institutions of higher education.		
18	(2) The outcome-centered funding formula model shall take into		
19	consideration at a minimum:		
20	(A) Course completion;		
21	(B) Certificate and degree completion;		
22	(C) Critical needs shortage areas;		
23	(D) Minority students;		
24	(E) Economically disadvantaged students; and		
25	(F) Nontraditional students.		
26	(q)(1) Each two-year college's total state funding received shall be		
27	calculated at:		
28	(A) Ninety-five percent (95%) under the funding formula		
29	model under subsections (b)-(m) of this section and five percent (5%) on the		
30	outcome-centered funding formula model for the 2013-2014 school year;		
31	(B) Ninety percent (90%) under the funding formula model		
32	under subsections (b)-(m) of this section and ten percent (10%) on the		
33	outcome-centered funding formula model for the 2014-2015 school year;		
34	(C) Eighty-five percent (85%) under the funding formula		
35	model under subsections (b)-(m) of this section and fifteen percent (15%) on		
36	the outcome-centered funding formula model for the 2015-2016 school year; and		

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As Engrossed: S3/21/11

SB766

1	(D) Eighty percent (80%) under the funding formula model
2	under subsections (b)-(m) of this section and twenty percent (20%) on the
3	outcome-centered funding formula model for the 2016-2017 school year.
4	(2) Beginning in the 2017-2018 school year, two-year college
5	funding shall be based seventy-five percent (75%) under the funding formula
6	model under subsections (b)-(m) of this section and twenty-five percent $(25\%)$
7	on the outcome-centered funding formula model.
8	
9	SECTION 7. Arkansas Code § 6-61-230 is amended to read as follows:
10	6-61-230. Review of funding formulas.
11	The Arkansas Higher Education Coordinating Board <del>, in collaboration with</del>
12	the Executive Council of the Presidents Council, shall review the funding
13	formulas set forth in this subchapter biennially and make written
14	recommendations for appropriate modifications or changes to the President Pro
15	Tempore of the Senate, the Speaker of the House of Representatives, and the
16	Governor by October 15 of the year prior to each regular session of the
17	General Assembly.
18	
19	SECTION 8. EMERGENCY CLAUSE. It is found and determined by the
20	General Assembly of the State of Arkansas that there is an increasing need to
21	ensure accountability and efficiency with our limited financial resources in
22	trying economic times; that clarifying the funding mechanisms for state-
23	supported institutions of education will allow the limited financial
24	resources to be allocated in a fair and equitable manner; and that this act
25	is immediately necessary because funding for state-supported institutions is
26	necessary for the 2012-2013 academic year. Therefore, an emergency is
27	declared to exist and this act being immediately necessary for the
28	preservation of the public peace, health, and safety shall become effective
29	<u>on:</u>
30	(1) The date of its approval by the Governor;
31	(2) If the bill is neither approved nor vetoed by the Governor,
32	the expiration of the period of time during which the Governor may veto the
33	<u>bill; or</u>
34	(3) If the bill is vetoed by the Governor and the veto is
35	overridden, the date the last house overrides the veto.
36	

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1	/s/G. Baker
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4	APPROVED: 04/05/2011
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# Appendix F: Technical Specifications

# Universities

Mandatory Measures		
Measure	Definition	Detail
Bachelor Credentials	Number of bachelor's degrees earned by students for an academic year regardless of enrollment status.	To reach the goal of doubling the number of degrees, a goal of bachelor's awarded is calculated based on the current proportional share of degrees awarded statewide. The goal is increased annually from the base year of 2009-10 by 4.73% to provide the needed increase toward the overall state goal of doubling the number of degrees. Each institution's performance annually toward its own goal is calculated as a percent of the goal met. That percentage produces a point or partial point based on 100% of the institutional goal. The point earned is capped at 1.0.
Total Credentials	Number of all credentials (technical certificates and above) earned by a student for an academic year regardless of enrollment status.	To reach the goal of doubling the number of degrees, a goal of all credentials awarded is calculated based on the current proportional share of degrees awarded statewide. The goal is increased annually from the base year of 2009-10 by 4.73% to provide the needed increase toward the overall state goal of doubling the number of degrees. Each institution's performance annually toward its own goal is calculated as a percent of the goal met. That percentage produces a point or partial point based on 100% of the institutional goal. The point earned is capped at 1.0.
STEM Credentials	Number of all credentials (technical certificates and above) earned by a student for an academic year regardless of enrollment status in the STEM CIP Codes. The source identifying STEM CIP Codes is the 2011 version published by US Immigration and Customs Enforcement (ICE). The list may be found at the following website (www.ice.gov/sevis/stemlist.htm).	If the average number of STEM credentials earned during the two most recent academic years is greater than the average of the three previous academic years then 1 point is awarded. Otherwise, if the two year average is 98.01% to 100% of previous three year average, .8 points are awarded; 96.01% to 98% of the average is .6 points, 94.01% to 96% of the average is .4 points; 92.01% to 94% is .2 points; 92% or below will result in 0 points.
Progression: University Version (New Arkansas Measure)	This measure utilizes a cohort of credential–seeking students enrolling in 6 or more hours during a fall semester. The cohort is then tracked through the next academic year to identify how many students in the cohort earned a total 18 or more credit hours through the two academic years (including remedial/developmental courses).	In each Fall Term, ADHE will create a Tracking Group for each institution by identifying the students enrolled in 6 or more hours on the 11 <sup>th</sup> class day. The percentage of those students who either earned 18 hours during the subsequent two academic years or completed a degree or technical certificate at the institution in which they were enrolled for tracking will be counted as having progressed. An increase in the comparison of the most recent 2-year average to the previous 3-year average generates 1 point.

	The Progression Rate is expressed	Otherwise, if the two year average is 99.91% to 100% of
	as a percentage and changes over	previous three year average, .9 points are awarded;
	time are expressed as a difference	99.81 to 99.9% of the average is .8 points, 99.71% to
	in percentage points. If a student	99.8% of the average is .7 points; 99.61% to 99.7% is .6
	graduates during the allotted time	points; 99.51% to 99.6% is .5 points; 99.41% to 99.5% is
	frame, then that student is counted	.4 points; 99.31% to 99.4% is .3 points; 99.21% to 99.3%
	as progressed.	is .2 points; 99.11% to 99.2% is .1 points; 99% or below
		will result in 0 points.
		Measures
Measure	Definition	Detail
Course	This is a Successful Course	If the average percentage of successful course
Completion	Completion Rate calculation which	completions during the two most recent academic years
	compares number of successful	is greater than the average percentage of successful
	SSCH to all SSCH in all non-remedial	course completions of the three previous academic
	courses. The Successful Course	years then 1 point is awarded, otherwise 0 points are
	Completion Rate is expressed as a	awarded.
	percentage and changes over time	
	are expressed as a difference in	
	percentage points.	
High Demand	Number of all credentials (technical	If the average number of credentials earned during the
Credentials	certificates and above) earned by a	two most recent academic years is greater than or equal
	student for an academic year	to the average of the three previous academic years
	regardless of enrollment status in	then 1 point is awarded, otherwise 0 points are
	the High Demand CIP Codes. The	awarded.
	2011 version of the High Demand	
	CIP Codes were obtained from	
	ADWS (Arkansas Department of	
	Workforce Services).	
Minority Student	Number of all credentials (technical	If the average number of credentials earned during the
Credentials	certificates and above) earned to	two most recent academic years is greater than or equal
Creacificato	persons identified as Asian only,	to the average of the three previous academic years
	Black only, Hispanic any, American	then 1 point is awarded, otherwise 0 points are
	Indian/Alaska Native only,	awarded.
	Hawaiian/Pacific Islander only or	
	Two or More Races. (Unknowns,	
	Non-Resident Aliens, White and	
	Other graduates are not included.)	
Non-Traditional	Number of all credentials (technical	If the average number of credentials earned during the
Student	certificates and above) earned by a	two most recent academic years is greater than or equal
Credentials	non-traditional student in an	to the average of the three previous academic years
	academic year. Non-traditional	then 1 point is awarded, otherwise 0 points are
	students are defined as age 25 or	awarded.
<b>D</b>	older at the time of graduation.	
Remedial	Number of all credentials (technical	If the average number of credentials earned during the
Student	certificates and above) earned by a	two most recent academic years is greater than or equal
Credentials	remedial student in an academic	to the average of the three previous academic years
	year. Remedial students are	then 1 point is awarded, otherwise 0 points are
	defined as students who were	awarded.
	required to take at least one	
	remedial course for completion.	
Regional	Number of all credentials (technical	If the average number of credentials earned during the
Economic Needs	certificates and above) earned by a	two most recent academic years is greater than or equal

Programs Credentials	student for an academic year regardless of enrollment status in programs identified by the institution and approved by the Arkansas Higher Education Coordinating Board. See Appendix B for detail.	to the average of the three previous academic years then 1 point is awarded, otherwise 0 points are awarded.
Transfer Student Credentials	Number of all credentials (technical certificates and above) earned by a student transferring from another Arkansas public institution of higher education.	If the average number of credentials earned during the two most recent academic years is greater than or equal to the average of the three previous academic years then 1 point is awarded, otherwise 0 points are awarded.
Expenditure of Federal Awards	Increase in restricted federal expenditures excluding transfers and scholarships by fiscal year.	ADHE will use the restricted expenditures, excluding scholarship expenditures, from the institutional reporting on the 17 series to calculate a 3-year average of expenditures of funds from external sources. An average of the subsequent 2 years will be calculated from the same report. An increase in the comparison of the 3-year to 2-year average generates 1 point.
Patents	The number of U.S. patents (utility, plant or design) issued or reissued to an institution within the year. Certificates of plant variety protection issued by the USDA should be included.	Each institution will identify the number of U.S. patents issued on average of a 3-year period. An average of the subsequent 2 years will be calculated. An increase in the comparison of the 3-year to 2-year average generates 1 point.
New Company Start-ups	The number of new companies started during the years that were dependent on licensing an institution's technology for their formation.	Each institution will identify the number of new companies started on average of a 3-year period. An average of the subsequent 2 years will be calculated. An increase in the comparison of the 3-year to 2-year average generates 1 point.
Percentage of Pell Receiving Undergraduate Population	Compensation Percentage of all undergraduate students receiving Pell grants ( <u>http://nces.ed.gov/collegenavigato</u> <u>r/</u> )	ory Measure The points awarded will be the percentage of undergraduate students receiving PELL as defined by IPEDS rounded to 2 significant digits. Currently the range is from .22 to .71 points.

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# **Two-year Colleges**

Mandatory Measures		
Measure	Definition	Detail
Remedial Course Success	The rate of remedial courses completed relative to remedial	This is an SSCH calculation of all successful grades in remedial courses divided by the total remedial SSCH
	courses attempted.	attempted. The remedial course success rate is expressed as a percentage and changes over time are
		expressed as a difference in percentage points. Attempted hours based on 11 <sup>th</sup> class day. Does not include Ds. The point earned for improvement is .50.
Non-remedial	The rate of non-remedial courses	This is an SSCH calculation of all successful grades in
Course Success	completed relative to non-remedial courses attempted.	non-remedial courses divided by the total non-remedial attempted SSCH. The non-remedial course success rate
		is expressed as a percentage and changes over time are
		expressed as a difference in percentage points. Does not
		include remedial courses. Attempted hours based on
		11 <sup>th</sup> class day. Includes Ds. The point earned for
		improvement is .50.
Progression	The rate of students that complete	This measure utilizes a cohort of credential-seeking
	either 18 hours or a credential.	students enrolled in six or more hours during the fall or
		spring semester. This cohort is then tracked through the
		next two academic years to identify how many students
		in the cohort earned either 18 or more credit hours
		(including remedial courses) OR completed a credential
		(certificate of proficiency, technical certificate or any
		associate degree). The progression rate is expressed as a
		percentage and changes over time are expressed as a
		difference in percentage points. The point earned for improvement is 1.00.
Certificates of	The number of certificates of	This is an overall headcount of all certificates of
Proficiency	proficiency awarded.	proficiency awarded by institution. This includes all
		certificates of proficiency approved by ADHE. Students
		earning more than one credential are counted each
		time. The point earned for improvement is .50.
Technical	The number of technical certificates	This is an overall headcount of all technical certificates
Certificates	awarded.	awarded by institution. This includes all technical
		certificates approved by ADHE. Students earning more
		than one credential are counted each time. The point
		earned for improvement is .50.
Associate	The number of associate degrees	This is an overall headcount of all associate degrees
Degrees	awarded.	awarded by institution. This includes all associate
		degrees approved by ADHE. Students earning more than
		one credential are counted each time. The point earned
Tatal Cuadautial		for improvement is 1.00.
Total Credentials	The rate of credentials awarded	This is a count of all credentials awarded by institution
	relative to enrollment.	per 100 FTE. This includes all certificates of proficiency,
		technical certificates and associate degrees approved by
		ADHE. The total credentials rate is expressed as a
		percentage and changes over time are expressed as a

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		difference in percentage points. Students earning more than one credential are counted each time. The points earned for improvement are 2.00.
	Mandatory Comp	pensatory Measures
Measure	Definition	Detail
Low-Income	The number of low-income students relative to enrollment.	This is a headcount of low-income students divided by overall credential-seeking headcount. Low-income is defined as receiving Pell. Up to one compensatory point will be added to total mandatory points based on percentage of students who receive Pell. (Ex: 50% of students receive Pell = .50 compensatory point.) Total mandatory points may not exceed six.
Under-prepared	The number of underprepared students relative to enrollment.	This is a headcount of underprepared students divided by overall credential-seeking headcount. Underprepared is defined as having an ACT of 15 or below, or equivalent score. Up to one compensatory point will be added to total mandatory points based on percentage of students who are underprepared. (Ex: 50% of students are underprepared = .50 compensatory point.) Total mandatory points may not exceed six. *Working with ACT to determine ACT equivalent scores.
Measure	Optiona Definition	l Measures Detail
STEM	The number of STEM credentials	This is an overall headcount of all certificates and
Credentials	awarded.	degrees awarded by institution in the STEM CIP Codes. Based on most recent ICE list as published on <u>www.ice.gov</u> . Students earning more than one credential are counted each time. An institution may assign up to 2.00 points to this measure. Point(s) earned if number improves. Optional measures may not exceed 4 points.
High Demand Credentials	The number of high demand credentials awarded.	This is an overall headcount of all certificates and degrees awarded by institution in the high demand CIP Codes. Based on most recent ADWS list as published on <u>www.discoverarkansas.net</u> . Students earning more than one credential are counted each time. An institution may assign up to 2.00 points to this measure. Point(s) earned if number improves. Optional measures may not exceed 4 points.

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Workforce	The number of workforce training	Workforce Education/Training is defined as any
Training	contact hours reported.	postsecondary (primarily non-credit) education or
Training		training activity (seminar, workshop, course, customized
		training activity (seminal, workshop, course, customized training, etc.) that is specifically used for
		developing/enhancing the skills of existing employees or
		members of any business or industry, and any training
		provided to individuals, whether employed or
		unemployed, that is designed to meet the employment
		needs of the student and/or employer by enhancing
		occupational, technical, and/or soft (communication,
		computational, and interpersonal) skills. Workforce
		training contact hours are reported by colleges annually.
		An institution may assign up to 2.00 points to this
		measure. Point(s) earned if number improves. Optional
		measures may not exceed 4 points.
Transfer	The number of students that	This is an overall headcount of any student earning at
	transfer after completing a	least 12 hours at the "sending" institution that transfers
	minimum of 12 hours.	to an Arkansas two-year college or four-year university.
		Includes remedial hours. The institution "sending" the
		student is counted. An institution may assign up to 2.00
		points to this measure. Point(s) earned if number
		improves. Optional measures may not exceed 4 points.
Adult Credentials	The number of credentials awarded	This is an overall headcount of adult students who
	to adults.	complete a certificate of proficiency, technical certificate
		or associate degree (as defined above). Adult is defined
		as age 25 or older at time of completion. All credentials
		completed are counted. An institution may assign up to
		2.00 points to this measure. Point(s) earned if number
		improves. Optional measures may not exceed 4 points.
Minority	The number of credentials awarded	This is an overall headcount of any credential completer
Credentials	to minorities.	reported as Asian, Black, Hispanic, American
		Indian/Alaska Native, or Hawaiian/Pacific Islander.
		Unknowns, Non-Resident Aliens, White and Other
		graduates are excluded. Graduate includes completion
		of certificate of proficiency, technical certificate, or
		associate degree (as defined above). All credentials
		completed are counted. An institution may assign up to
		2.00 points to this measure. Point(s) earned if number
		improves. Optional measures may not exceed 4 points.
Employment	The number of credential	*Working with Arkansas Department of Workforce
	completers that obtain	Services on data. An institution may assign up to 2.00
	employment.	points to this measure. Point(s) earned if number
		improves. Optional measures may not exceed 4 points.

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