



## First-Year Results: Advanced Placement and Career Technical Education Exam Fee Pilot Program

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### Key Points

In May 2013, the Tennessee General Assembly established a two-year pilot to increase the number of students participating in Advanced Placement (AP) and Career Technical Education (CTE) coursework and taking the respective exams. The pilot allocated \$200,000 of state funds to pay the cost of AP and Student Industry Certification (SIC) exam fees, regardless of family financial status, at selected pilot schools. The Tennessee Department of Education (TDOE) is charged with administering the pilot, which began in the 2013-14 school year.

Eleven schools participated in the AP Math pilot, which covered the cost of AP exams in three math courses, using criteria that included schools with:

- low AP exam participation rates (50 percent or lower) for students enrolled in AP math courses;
- low AP exam participation rates for AP-ready students and economically disadvantaged students; and
- school populations with at least 25 percent economically disadvantaged students.

TDOE selected five additional schools for the Knox County AP pilot separately. The Knox County AP pilot covered the costs for all AP exams in the pilot schools. This report considers the results from the AP Math pilot and the Knox County pilot separately.

For the CTE portion of the pilot, TDOE selected SICs for the pilot based on key industries in Tennessee. Eight schools participated in the pilot. The SIC exam fee pilot pays exam fees for students who enroll in CTE courses and take corresponding SIC exams. The two-year grant provides up to \$3,000 per year for each school selected as a pilot site.

Overall, AP course enrollment at pilot sites decreased in the pilot program's first year, exam participation increased, and the exam passage rate decreased. Because students had already enrolled in AP courses for SY 2013-14 before schools confirmed their participation in the pilot, the pilot program may not have affected course enrollment in its first year. Results varied by pilot site and course taken.

Results for the Knox County AP Pilot were similar, except that its AP enrollment decreased only slightly (by seven students) from the previous year. Exam participation increased substantially in the five Knox County pilot schools. Although the number of Knox County AP exams with a passing score increased in the first pilot year, the number without a passing score more than doubled from the previous year.

In the first year of the pilot, Tennessee's economically disadvantaged students generally had lower AP exam participation and exam pass rates compared to their non-economically disadvantaged peers.

Because many students in pilot schools had already enrolled in CTE courses for the academic year before schools confirmed their participation in the pilot, the pilot program may not have affected course enrollment in its first year. In general, student participation was low in the CTE/SIC pilot programs, although some (notably A-Plus, Certified Nursing Assistant, and ServSafe) experienced increased student participation at some of the pilot sites. While the number of exams taken and passed was generally low, exam pass rates averaged 72.3 percent. Second year results should yield more information.

## **Introduction**

In May 2013, the Tennessee General Assembly passed Public Chapter 351, which established a two-year pilot to increase the number of students participating in Advanced Placement (AP) and Career Technical Education (CTE) coursework and taking the respective exams. The pilot allocated \$200,000 of state funds to pay the cost of AP and Student Industry Certification (SIC)<sup>1</sup> exam fees, regardless of family financial status, at selected pilot schools.<sup>2</sup> The Tennessee Department of Education (TDOE) is charged with administering the pilot, designated by the General Assembly to cost no more than \$100,000 per year.<sup>3</sup>

Public Chapter 351 requires the Comptroller's Offices of Research and Education Accountability (OREA) and TDOE to study the pilot and report on its effectiveness after its initial year and at its conclusion. (See [Appendix A](#).) This is the initial OREA report, covering results from SY 2013-14. The final report will provide additional analysis on the effectiveness of the pilot, including results from SY 2014-15.

### **Total Costs for Year One, SY 2013-14**

The total cost for the AP and CTE/SIC exam fee pilot during SY 2013-14 was \$100,383. The General Assembly allocated \$100,000 for the first year of the pilot. The \$383 in excess of the allotted amount was provided by TDOE.<sup>4</sup>

The total cost for the Knox County AP pilot was \$73,430. The remaining funds were divided

between the AP Math exam fee pilot (\$16,961), and the CTE/SIC exam fee pilot (\$9,992). The pilot paid for 955 AP exams in Knox County, 238 AP exams across the state through the AP Math pilot, and 137 selected SIC exams across the state through the CTE/SIC exam fee pilot.<sup>5</sup>

This report is presented in two sections, with the first covering both the AP and the Knox County exam fee pilots and the second covering the CTE/SIC exam fee pilot. [Exhibit 2](#) provides definitions for terms used in describing pilot results.

## **Background: AP Exam Fee Pilot**

The Advanced Placement (AP) program, which is administered by the College Board, provides high school students with the opportunity to take rigorous, college-level courses taught by high school teachers in over 30 different subject areas.<sup>6</sup> Research shows that students who take AP courses in high school and attempt the exams are more successful academically as college freshmen.<sup>7</sup> AP exams provide a standardized benchmark to assess student learning in the respective AP course. A score of 3 is considered "passing"; most postsecondary institutions award college credit in the respective subject area to students who achieve this score.<sup>8</sup>

## **Pilot Site Selection and Implementation**

The AP exam fee pilot is divided into two sub-components:

1. The AP Math pilot pays exam fees for students who enroll in coursework and take one or more AP Math course exams

### **Exhibit 1: Total costs for the AP and CTE/SIC exam fee pilot, SY 2013-14**

	<b>Exams</b>	<b>Cost</b>	<b>Percentage</b>
<b>AP Math pilot</b>	238	\$16,961	16.9%
<b>Knox County AP pilot</b>	955	\$73,430	73.1%
<b>CTE/SIC pilot</b>	137	\$9,992	10.0%
<b>Total funds</b>	1,330	\$100,383	100.0%

Source: Tennessee Department of Education, e-mail and attachment, Oct. 7, 2014; Tennessee Department of Education, AP CTE Pilot Analysis data, received July 29, 2014.

(limited to Calculus AB, Calculus BC, Calculus AB/BC, and Statistics) at pilot schools.

2. The Knox County AP pilot pays exam fees for students who enroll in coursework and take one or more available AP course exams (including, but not limited to, subject areas such as Physics, Biology, Chemistry, U.S. History, English Language and Literature, Comparative Government and Politics, and Studio Art) at pilot schools in Knox County Schools.<sup>9</sup>

TDOE selected 11 school sites for the AP Math pilot, using criteria based on AP pipeline data developed by the Office of Research and Policy at the department.<sup>10</sup> These criteria included schools with:

- low AP exam participation rates (50 percent or lower) for students enrolled in AP math courses;
- low AP exam participation rates for AP-ready students<sup>11</sup> and economically disadvantaged students; and

- school populations with at least 25 percent economically disadvantaged students.<sup>12</sup>

TDOE selected five additional schools for the Knox County AP pilot separately.<sup>13</sup> The Knox County AP pilot covered the costs for all AP exams in the pilot schools.<sup>14</sup>

TDOE contacted selected schools for the AP Math pilot in September 2013 and required participating schools to submit a signed Memorandum of Understanding (MOU) by November 2013.<sup>15</sup> Schools in the Knox County AP pilot submitted an MOU in April 2014.<sup>16</sup> [Exhibit 3](#) depicts the exam fee pilot sites in a map of Tennessee. [Exhibit 4](#) provides a list of the AP Math pilot sites by school district. [Exhibit 5](#) provides a list of schools in the Knox County AP pilot.

Some of the schools selected by TDOE chose not to participate in the pilot. In total, 11 schools participated in the AP Math pilot and five schools participated in the Knox County AP pilot. Six schools originally selected by TDOE for the AP

## Exhibit 2: Definitions

**Course enrollment** refers to the total number of students who are enrolled in an AP or CTE course or courses. Course enrollment counts may exceed the number of students participating in the pilot program because students may enroll in more than one course.

**Exam participation** refers to the number of AP or SIC exams taken by students, or to the number of students taking an AP or SIC exam in a particular subject or subjects. Exam participation counts may exceed the number of students participating in the pilot program because students may take more than one exam. Students who take an AP exam are typically enrolled in an AP course at their school; students may choose to take an AP exam without enrolling in the respective AP course. For purposes of the pilot, however, students were required to enroll in the class to qualify for exam fee reimbursement.

**Exam participation rate** refers to the percentage of students enrolled in an AP or CTE course who also take the respective AP or SIC exam.

**Number of exams passed** refers to the number of AP or SIC exams taken by students earning a passing score of 3, 4, or 5. A score of 3 or higher (out of 5) is considered passing for AP exams. For SIC exams, pass/fail thresholds vary. **Exam pass rate** refers to the percentage of AP or SIC exams taken by students earning a passing score of 3, 4, or 5.

Math pilot did not submit an MOU or request reimbursement, and ultimately did not participate in the study.<sup>17</sup>

### Exam Fees and Reductions

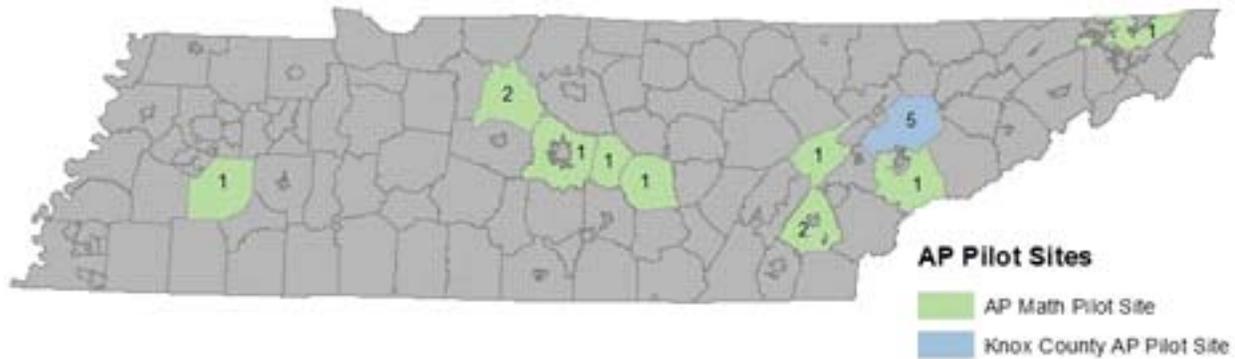
In 2014, the College Board fee for each AP exam was \$89. Schools received an \$8 rebate per exam from the College Board to pay for administrative costs.<sup>18</sup> In 2015, the fee for each AP exam will be \$91, and schools will receive a \$9 rebate per exam for administrative costs.<sup>19</sup>

Eligible students who qualify as economically disadvantaged may receive exam fee reductions provided by the College Board and the U.S. Department of Education. In 2014, the College

Board provided a \$26 fee reduction per exam for eligible students in Tennessee. In 2015, the College Board will provide a \$29 fee reduction per exam for eligible students. For each exam taken with a fee reduction, the College Board retains the school rebate provided for administrative costs, and contributes this money toward the fee reductions for economically disadvantaged students.<sup>20</sup>

The U.S. Department of Education grants awards through the Federal Advanced Placement Test Fee program to eligible state education agencies to pay for all or a portion of AP exam fees for economically disadvantaged students who are enrolled in an AP course and take an AP exam. In

### Exhibit 3: Map of AP exam fee pilot sites



Note: Numerals shown in districts represent the number of pilot sites located there.

### Exhibit 4: AP Math pilot sites selected by TDOE, SY 2013-14

School	School District
Cannon County HS	Cannon Co.
Central HS	McMinn Co.
Heritage HS	Blount Co.
John Overton Comprehensive HS	MNPS
Madison Academic Magnet HS	Jackson-Madison Co.
McGavock Comprehensive HS	MNPS
McMinn HS	McMinn Co.
Oliver Springs HS	Roane Co.
Smyrna HS	Rutherford Co.
Sullivan Central HS	Sullivan Co.
Warren County HS	Warren Co.

Source: Tennessee Department of Education, Director Update, Oct. 8, 2013; Tennessee Department of Education, AP CTE Pilot Analysis data, received July 29, 2014.

### Exhibit 5: Knox County AP pilot sites selected by TDOE, SY 2013-14

- Carter High School
- Gibbs High School
- Halls High School
- Karns High School
- South Doyle High School

Source: Tennessee Department of Education, Director Update, Oct. 8, 2013; Tennessee Department of Education, AP CTE Pilot Analysis data, received July 29, 2014.

2013 and 2014, Tennessee received federal awards in the amount of \$344,613 and \$401,016, respectively. These federal awards provide exam fee reductions of \$37 per exam for eligible students in Tennessee for SY 2013-14 and SY 2014-15.<sup>21</sup>

Tennessee’s AP exam fee pilot provides students who are enrolled in AP courses at selected pilot schools with an additional fee reduction to cover the entire remaining cost of selected AP exams.<sup>22</sup> For SY 2013-14, the first year of the pilot, the state contribution per AP exam was \$55 for eligible economically disadvantaged students and \$81 for all other students.<sup>23</sup> For SY 2014-15, the second year of the pilot, the state contribution per AP exam will be \$53 for eligible economically disadvantaged students and \$82 for all other participating students.<sup>24</sup>

See [Exhibit 6](#) for a summary of the AP exam fee costs for students and for fee reductions for economically disadvantaged students outside of the pilot program.

Some school districts or local community foundations provide additional local AP exam fee reductions to cover a portion or all of remaining student costs. It is unknown whether sites in the state-funded AP pilot also provide such local AP exam fee reductions.

### **Results: Math AP Exam Fee Pilot**

The math pilot was conducted at 11 pilot sites in 10 school districts and covered three AP math courses (Calculus AB, Calculus BC, and Statistics). To determine results from the first year of the pilot program, OREA compared AP course enrollment, AP exam participation, and exam passage for SY 2013-14 with data from SY 2012-13, and also reviewed data from the five-year period before the pilot (SY 2008-09 through 2012-13) for historical context. (See [Exhibit 2](#) for definitions of terms.)

Overall, AP course enrollment at pilot sites decreased in the pilot program’s first year. Because students had already enrolled in AP courses for SY 2013-14 before schools confirmed

**Exhibit 6: AP exam fee cost for students with and without economic disadvantage**

School Year	SY 2013-2014		SY 2014-2015	
	Non-ED students	Economically disadvantaged students	Non-ED students	Economically disadvantaged students
College Board exam fee	\$89	\$89	\$91	\$91
College Board rebate waived by local schools for exams taken by economically disadvantaged students <sup>A</sup>	(\$8)	(\$8)	(\$9)	(\$9)
College Board fee reduction for economically disadvantaged students	NA	(\$26)	NA	(\$29)
USDOE Advanced Placement Test Fee (APTF) program for economically disadvantaged students <sup>B</sup>	NA	NA	NA	NA
State contribution with pilot	\$81	\$55	\$82	\$53
<b>Student Contribution (outside pilot program)</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Notes: (A) Schools participating in the AP Math Pilot and AP Knox County Pilot waive the College Board rebate for all exams taken by students in pilot schools. (B) Schools participating in the AP Math Pilot and AP Knox County Pilot are not eligible to use the federal APTF funds. Source: Tennessee Department of Education, *2014 Federal AP Exam Grant Procedures for Economically Disadvantaged Students*, <http://www.tn.gov/> (accessed March 19, 2015); College Board, Fees and Fee Reductions, “AP Exam Fees and Available Reductions,” <http://professionals.collegeboard.com/> (accessed Feb. 11, 2015); College Board, “Fee Reductions for AP Exams,” <http://professionals.collegeboard.com/> (accessed Feb. 11, 2015).

their participation in the pilot, the pilot program may not have affected course enrollment in its first year. Course enrollment trends varied by pilot site: enrollment increased at four schools, decreased at six schools, and remained the same at one school, as shown in [Appendix B](#).<sup>25</sup> Course enrollment also varied in the pilot sites over the five-year period prior to implementation of the pilot program, ranging from 224 to 473.

Exam participation increased overall in the first year of the pilot program; the exam passage rate decreased. Overall, AP exam participation in pilot sites increased by 115 students from SY 2012-13 through SY 2013-14. Although the number of students taking AP exams increased, the percentage of students passing the exams decreased from 36.8 percent in SY 2012-13 to 22.3 percent in SY 2013-14.

### Results by Math Courses

In general, enrollment decreased in all three math courses offered in the pilot, but decreased only slightly in one course (Calculus AB). Variation in enrollment occurred in all five previous years with no obvious pattern.

As in the overall results, exam participation increased in all three courses. The exam pass

rate decreased in two of the three courses, and increased only slightly in one course (Calculus BC). See [Exhibit 8](#) for results by courses.

### Results by High School Pilot Sites

Course enrollment varied by pilot site, with four of the 11 schools showing increased enrollment, six schools showing a decrease, and one school remaining the same as the previous year. Enrollment varied widely among the schools in the five years prior to the pilot.

Exam participation increased in nine of the pilot schools and decreased in two.

Although some schools increased the number of students participating in exams, exam pass rates decreased at most sites.

For the number of students enrolled, participating in exams, and with and without passing scores by pilot site, see [Appendix B](#).

### Results: Knox County AP Pilot

The Knox County AP Pilot was conducted at five schools and covered all AP courses offered.<sup>26</sup> To determine results from the first year of the pilot program, OREA compared Knox County AP course enrollment, AP exam participation, and

### **Exhibit 7: AP Math Pilot, course enrollment, exam participation and success**

	Year	Course Enrollment (# of students enrolled)	Exam Participation (# of exams taken)	# of Exams with a passing score	# of Exams without a passing score	Exam Pass Rate (%)
AP Math Pilot	2008-2009	252	84	24	60	28.6
	2009-2010	224	56	19	37	33.9
	2010-2011	345	68	19	49	27.9
	2011-2012	420	103	48	55	46.6
	2012-2013	473	114	42	72	36.8
	2013-2014	395	229	51	178	22.3

Note: In cases where course enrollment accounts for students who are enrolled in more than one AP course, course enrollments will double count students. In cases where exam participation accounts for students taking more than one AP exam, exam counts will double count students.

Source: Tennessee Department of Education.

exam passage for SY 2013-14 with data from SY 2012-13, and also reviewed data from the five-year period before the pilot (SY 2008-09 through 2012-13) for historical context.

Overall, from SY 2012-13 through the SY 2013-14 pilot year, Knox County AP enrollment decreased only slightly (by seven students), and exam participation increased substantially, from 543 (35

percent) to 947 (62 percent). Although the number of Knox County AP exams with a passing score increased (by 60), the number without a passing score more than doubled from the previous year. As shown in [Exhibit 9](#), the exam pass rate dropped from 43.1 percent to 31 percent in the first pilot year. Knox County's highest passage rate in the five years prior to the pilot was 59.5 percent in 2009-10.

**Exhibit 8: AP Math pilot course enrollment, exam participation, and success by math subject exam**

	Year	Course Enrollment (# of students enrolled)	Total Exam Participation (# of exams taken)	Exam Participation Rate (%)	# of Exams with a passing score	# of Exams without a passing score	Exam Pass Rate (%)
Calculus AB	2008-09	201	60	29.9	13	47	21.7
	2009-10	164	41	25.0	15	26	36.6
	2010-11	292	56	19.2	15	41	26.8
	2011-12	222	49	22.1	21	28	42.9
	2012-13	299	56	18.7	15	41	26.8
	2013-14	285	161	56.5	26	135	16.1
Calculus BC	2008-09	32	19	59.4	--	--	--
	2009-10	43	14	32.6	--	--	--
	2010-11	35	12	34.3	--	--	--
	2011-12	91	26	28.6	17	--	65.4
	2012-13	60	39	65.0	18	21	46.2
	2013-14	21	29	138.1	15	14	51.7
Statistics	2008-09	19	--	--	--	--	--
	2009-10	17	--	--	--	--	--
	2010-11	18	--	--	--	--	--
	2011-12	107	28	26.2	--	18	35.7
	2012-13	114	19	16.7	--	--	47.4
	2013-14	67	39	58.2	10	29	25.6

Note: -- = Data is suppressed to protect student privacy.

Source: Tennessee Department of Education.

**Exhibit 9: Knox County AP Pilot – course enrollment, exam participation, and pass rate**

	Year	Course Enrollment (# of students enrolled)	Exam Participation (# of exams taken)	# of Exams with a passing score	# of Exams without a passing score	Exam Pass Rate (%)
Knox County AP pilot	2008-2009	1,430	478	254	224	53.1
	2009-2010	1,453	447	266	181	59.5
	2010-2011	1,477	588	244	344	41.5
	2011-2012	1,605	652	301	351	46.2
	2012-2013	1,538	543	234	309	43.1
	2013-2014	1,531	947	294	653	31.0

Source: Tennessee Department of Education.

Enrollment in AP courses increased at three pilot schools and decreased at two, keeping the district at nearly the same enrollment level as in SY 2012-13. Exam participation increased significantly at all five pilot sites, but the exam pass rates dropped in all five schools, as shown in [Exhibit 10](#).

For detailed information about the Knox County pilot by course level, see [Appendix C](#).

## **Results: Economically Disadvantaged Students**

Economically disadvantaged students have been historically underrepresented in AP programs throughout the United States.<sup>27</sup> Tennessee's economically disadvantaged students have low AP exam participation and exam success rates compared to their non-economically disadvantaged peers.

**Exhibit 10: Knox County AP pilot total enrollment, exam participation, and exam pass rate by high school**

	Year	Course Enrollment (# of students enrolled)	Exam Participation (# of exams taken)	# of Exams with a passing score	# of Exams without a passing score	Exam Pass Rate (%)
Carter HS	2008-09	180	64	33	31	51.6
	2009-10	150	41	24	17	58.5
	2010-11	186	76	28	48	36.8
	2011-12	133	59	29	30	49.2
	2012-13	145	72	32	40	44.4
	2013-14	167	120	34	86	28.3
Gibbs HS	2008-09	192	29	15	14	51.7
	2009-10	197	55	30	25	54.5
	2010-11	186	45	25	20	55.6
	2011-12	168	63	29	34	46.0
	2012-13	190	77	23	54	29.9
	2013-14	248	135	34	101	25.2
Halls HS	2008-09	302	138	60	78	43.5
	2009-10	385	152	91	61	59.9
	2010-11	482	207	103	104	49.8
	2011-12	557	251	127	124	50.6
	2012-13	447	207	101	106	48.8
	2013-14	376	256	114	142	44.5
Karns HS	2008-09	422	192	127	65	66.1
	2009-10	366	148	106	42	71.6
	2010-11	366	178	75	103	42.1
	2011-12	416	203	99	104	48.8
	2012-13	423	132	68	64	51.5
	2013-14	350	203	74	129	36.5
South Doyle HS	2008-09	334	55	19	36	34.5
	2009-10	355	51	15	36	29.4
	2010-11	257	82	13	69	15.9
	2011-12	331	76	17	59	22.4
	2012-13	333	55	10	45	18.2
	2013-14	390	233	38	195	16.3

Note: In cases where course enrollment accounts for students who are enrolled in more than one AP course, course enrollments will double count students. In cases where exam participation accounts for students taking more than one AP exam, exam counts will double count students.

Source: Tennessee Department of Education.

The 2013 public chapter creating the pilot sought to remove economic barriers for all students eligible to take AP exams, including economically disadvantaged students. Two of the criteria TDOE used in selecting school sites for the pilot were low AP exam participation rates by economically disadvantaged students<sup>28</sup> and school populations with at least 25 percent economically disadvantaged students.<sup>29</sup>

Results from the AP Math pilot and the Knox County AP pilot are displayed in Exhibits 11 and 12.

In year one of the AP Math pilot, 34.8 percent of all AP Math exams (73 out of 210 exams) were taken by economically disadvantaged students; and economically disadvantaged students had a lower

pass rate (8.2 percent) than their non-economically disadvantaged peers (26.3 percent). (See Exhibit 11.) In year one of the pilot, economically disadvantaged students comprised 58.8 percent of Tennessee’s total student population.<sup>30</sup>

In the Knox County AP pilot, 17.4 percent (104 out of 596 exams) of all AP exams were taken by economically disadvantaged students; and economically disadvantaged students had a lower pass rate (28.8 percent) than their non-economically disadvantaged peers (36.4 percent). (See Exhibit 12.) In year one of the pilot, economically disadvantaged students made up 49.5 percent of the total Knox County student population.<sup>31</sup>

**Exhibit 11: AP Math pilot exam participation and exam pass rate by student economic status, all pilot locations, SY 2013-14**

	Exam Participation (# of Students Taking Exams)		% Exam Participation by economic status		# of Students with Passing Score		Exam Pass Rate (%)	
	Non-ED	ED	Non-ED	ED	Non-ED	ED	Non-ED	ED
Cannon Co. HS	--	--	70.0%	30.0%	--	--	--	--
Central HS	--	--	--	--	--	--	--	--
Heritage HS	NA	NA	NA	NA	NA	NA	NA	NA
John Overton Comprehensive HS	43	36	54.40%	45.6%	--	--	--	--
Madison Academic Magnet HS	16	0	100.0%	0.0%	--	--	--	--
McGavock HS	12	15	44.4%	55.6%	--	--	--	--
McMinn Co. HS	11	--	--	--	--	--	--	--
Oliver Springs HS	--	--	100.0%	0.0%	--	--	--	--
Smyrna HS	--	--	60.0%	40.0%	--	--	--	--
Sullivan Central HS	14	--	--	--	--	--	--	--
Warren Co. HS	21	--	--	--	--	--	--	--
<b>Total</b>	<b>137</b>	<b>73</b>	<b>65.2%</b>	<b>34.8%</b>	<b>36</b>	<b>6</b>	<b>26.3%</b>	<b>8.2%</b>

Notes: (1) — = Data is suppressed to protect student privacy. (2) ED = economically disadvantaged. (3) NA = not available. The number of ED/Non-ED students was not provided for the 17 total exams taken at Heritage HS.

Source: Tennessee Department of Education.

## **Background: Career Technical Education Exam Fee Pilot**

Career Technical Education (CTE) courses and programs of study integrate career exploration, technical skills, and general education content to prepare high school students for postsecondary education and careers.<sup>32</sup> CTE is not exclusive to comprehensive high schools and may be offered in a variety of other settings, including career academies, regional career and technical centers, Tennessee Colleges of Applied Technology, and community colleges, as well as through dual enrollment or dual credit opportunities.<sup>33</sup>

Student Industry Certifications (SICs) are nationally recognized occupational credentials based on assessments developed by industry groups or professional associations, often used as factors for job placement, starting wages, and retention in particular industries. SICs reflect the knowledge and technical skills gained by students through particular training, CTE coursework, hours of work experience, or other preparation for a particular job or career.<sup>34</sup>

### **Pilot Site Selection and Implementation**

The Student Industry Certification (SIC) exam fee

pilot pays exam fees for students who enroll in CTE courses and take one or more corresponding SIC exams at selected pilot schools. Eligible exams were First Responder, Certified Nursing Assistant, ServSafe, Certified EKG Technician, Certified Pharmacy Technician, CompTIA (A+ and Net+), American Welding Society, and National Institute for Metal Working Skills exams. The two-year grant provides up to \$3,000 per year for each school selected as a pilot site.<sup>35</sup>

TDOE selected SICs to include in the pilot based on key industries identified by the Tennessee Department of Economic and Community Development.<sup>36</sup> The certification exams and costs covered as part of the pilot are listed in [Exhibit 13](#).

School sites for the CTE/SIC exam fee pilot were selected based on a competitive grant application process. TDOE required schools to describe:

- the school’s promotion of SIC exam participation among students;
- the school’s approach to implementing the SIC exam pilot; and
- the alignment of SIC participation with local and regional postsecondary programs, and the local and regional labor market.<sup>37</sup>

**Exhibit 12: Knox County AP pilot, AP exam participation and exam pass rate by economic status, all pilot locations, SY 2013-14**

	# of Students Taking Exams		% Exam Participation		# of Students receiving Passing Score		Exam Pass Rate (%)	
	Non-ED	ED	Non-ED	ED	Non-ED	ED	Non-ED	ED
Gibbs HS	66	14	82.5%	17.5%	17	--	25.8%	--
Halls HS	131	25	84.0%	16.0%	62	12	47.3%	48.0%
South-Doyle HS	100	51	66.2%	33.8%	21	10	21.0%	19.6%
Karns HS	145	0	100.0%	0.0%	57	0	39.3%	NA
Carter HS	50	14	78.1%	21.9%	22	--	--	--
Total	492	104	82.6%	17.4%	179	30	36.4%	28.8%

Note: (1) — = Data is suppressed to protect student privacy. (2) ED = economically disadvantaged students. (3) NA = not applicable. No economically disadvantaged students participated in exams at Karns High School. Source: Tennessee Department of Education.

Applications for the pilot were made available by TDOE in September 2013 and were due by October 1, 2013.<sup>38</sup> Of the 27 schools across the state that submitted a grant application to participate in the CTE/SIC exam fee pilot, 10 were selected as pilot sites.<sup>39</sup> TDOE required selected schools to submit a signed Memorandum of Understanding (MOU) by November 2013 to be a participant school.<sup>40</sup> Two schools selected to be pilot sites did not submit the MOU by the deadline, and as a result did not participate in the pilot. In total, eight schools that submitted grant applications participated as sites for the CTE/SIC exam fee pilot.<sup>41</sup>

**Exhibit 14** depicts the CTE/SIC pilot locations on a map of Tennessee. **Exhibit 15** lists the districts and schools selected as pilot sites.

### Exam Fees and Reductions

Costs for SIC exams vary based on the industry area and type of exam.<sup>42</sup> Some school districts or local community foundations provide SIC exam fee reductions to cover a portion or all of remaining student costs.<sup>43</sup> It is unknown whether sites in the SIC pilot also provide such local SIC exam fee reductions.

### Exhibit 13: Exam Fees for SIC exams included in the CTE/SIC exam fee pilot

SIC (Student Industry Certification)	Exam Fee Reimbursement Provided by TDOE
First Responder (Emergency Medical)	\$110 (registration plus exam fee)
Certified Nursing Assistant (C.N.A)	\$90
CompTIA (A+ and Net+)	\$133
AWS (American Welding Society)	\$15
ServSafe (National Restaurant Association)	\$15
Certified EKG Technician (Electrocardiogram Technician)	Not Available <sup>A</sup>
Certified Pharmacy Technician	Not Available <sup>B</sup>
NIMS (National Institute for Metal Working Skills)	\$50
Siemens Mechatronics Systems Certification (I, II, and III)	Not Available <sup>C</sup>

**Notes:**

A: Reimbursement for this exam was not determined by TDOE because no schools were selected as a pilot site for this exam.

B: Reimbursement for this exam was not determined by TDOE because no schools were selected as a pilot site for this exam.

C: TDOE added Siemen's Certification to the list of SICs covered by this grant for SY 2014-15. Reimbursement for this exam was not determined by TDOE because no schools were selected as a pilot site for this exam.

Source: Tennessee Department of Education, e-mail attachment, Oct.24, 2014.

### Exhibit 14: Map of CTE/SIC exam fee pilot sites



Note: Numerals shown in districts represent the number of pilot sites located there.

## **Results: CTE/SIC Pilot**

TDOE began collecting data for SIC exams at pilot sites eligible for the CTE/SIC exam fee pilot in SY 2013-14.<sup>44</sup> Data was collected on a self-reported basis from the school districts. The Offices of Research and Education Accountability contacted the individual schools selected as pilot sites for the CTE/SIC exam fee pilot to obtain additional data. The data in [Exhibit 16](#) was reported to OREA by districts; it has not been verified by TDOE.

Because many students in pilot schools had already enrolled in CTE courses for the academic year before schools confirmed their participation in the pilot, the pilot program may not have affected course enrollment in its first year.<sup>45</sup> It was not possible to compare information about all pilot sites from the previous year to the pilot year.

In general, student participation was low in the CTE/SIC pilot programs. Course enrollment counts were highest in the Culinary Arts (ServSafe Certification) program in Loudon High School and Hunters Lane High School, the Information Technology (A+ and Net+) programs at Spring Hill High School, and the Health Science (Certified Nursing Assistant) programs at Lebanon High School. The number of exams taken was highest in the ServSafe program at Loudon High School, and York Institute. While the number of exams taken and passed was generally low, the pass rate for SIC exams taken in the pilot was 72.3 percent.<sup>46</sup> Second year results should yield more information.

For more detailed information by pilot site about CTE course enrollment, participation by economically disadvantaged students, total number of SIC exams taken, and the number of exams with a passing score, see [Appendix D](#).

## **Exhibit 15: Selected CTE/SIC Pilot Sites**

<b>School District</b>	<b>School</b>
Anderson	ACCTC
Bradley	Bradley Central
Loudon	Loudon County HS
Maury	Columbia Central
Maury	Spring Hill
MNPS	Hunters Lane
State	York Institute
Wilson	Lebanon HS

Source: Tennessee Department of Education.

**Exhibit 16: Student Industry Certification grant participation for SY 2013-14 and comparison data for SY 2012-13**

SIC	LEA	School	SY 2013-14				SY 2012-13			
			Total # of Students Enrolled	# ED Students	Total # of Exams Taken	Total # of Exams Passed	Total # of Students Enrolled	# ED Students	Total # of Exams Taken	Total # of Exams Passed
First Responder	Anderson	ACCTC	14	12	12	--	NA	NA	NA	NA
CNA	Anderson	ACCTC	--	--	--	--	--	--	--	--
	Maury	Columbia Central	11	--	11	--	15	--	15	13
	Wilson	Lebanon	45	--	--	--	21	--	14	--
	State	York Inst.	18	--	24*	14	--	--	10	5
A+ and Net+	Maury	Spring Hill	39	--	14	--	0	0	0	0
AWS	Bradley	Bradley Central	15	--	--	--	17	--	--	--
ServSafe	Loudon	Loudon HS	105	66	46	46	NA	NA	NA	NA
	MNPS	Hunters Lane	119	--	--	--	NA	NA	NA	NA

Note: (1) — = Data is suppressed to protect student privacy. (2) ED = economically disadvantaged.

(3) \* = Data provided by TDOE for York Institute in SY 2013-14 showed 24 Certified Nursing Assistant exams attempted, which exceeds the number of students enrolled in the course as reported to OREA by the LEA. (4) NA = not applicable because program was not in place during previous year.

Source: Compiled from data provided to OREA by the Tennessee Department of Education and LEAs.

## Endnotes

- <sup>1</sup> Career Technical Education (CTE) refers to the courses students enroll in. Student Industry Certifications (SIC) refer to the industry certification exams taken by students. Standard Industrial Classifications differ from Standard Industrial Certifications.
- <sup>2</sup> Tennessee Department of Education, e-mail attachment, April 30, 2014.
- <sup>3</sup> 108<sup>th</sup> Tennessee General Assembly, Public Chapter 351, 2013.
- <sup>4</sup> Tennessee Department of Education, e-mail and attachment, Oct. 7, 2014.
- <sup>5</sup> Tennessee Department of Education, e-mail and attachment, Oct. 7, 2014; Tennessee Department of Education, AP CTE Pilot Analysis data, received July 29, 2014.
- <sup>6</sup> Tennessee Department of Education, e-mail attachment, April 30, 2014; College Board, *AP Course Descriptions*, <http://apcentral.collegeboard.com/> (accessed, March 18, 2015).
- <sup>7</sup> Southern Regional Education Board, *Tennessee: Taking Stock and Pushing Forward, 2014 State Progress Report*, p.18, <http://publications.sreb.org/> (accessed March 19, 2015).
- <sup>8</sup> Southern Regional Education Board, *Participation and Success in the Advanced Placement Program Continue to Grow in SREB States*, Oct. 2010, <http://publications.sreb.org/> (accessed March 19, 2015).
- <sup>9</sup> Tennessee Department of Education, Memorandum of Understanding with Knox County Schools, signed by school officials in April 2014.
- <sup>10</sup> Tennessee Department of Education, AP CTE Pilot Analysis data, received July 29, 2014; Tennessee Department of Education, Office of Research and Policy, *Advanced Placement Strategy: A Framework for Identifying School-Level Barriers to AP Success*, May 2014, <http://state.tn.us/education/> (accessed Feb. 9, 2015).
- <sup>11</sup> “AP-ready students” refer to students who scored in the top 10 percent on the 8<sup>th</sup> grade TCAP. Tennessee Department of Education, Office of Research and Policy, *Advanced Placement Strategy: A Framework for Identifying School-Level Barriers to AP Success*, May 2014, <http://state.tn.us/education/> (accessed Feb. 9, 2015).
- <sup>12</sup> Tennessee Department of Education, e-mail and attachment, Oct. 7, 2014; Tennessee Department of Education, 2013-14 AP Exam Fee Pilot, Talking Points; Tennessee Department of Education, AP Pilot Press Release, Sept. 23, 2013.
- <sup>13</sup> Tennessee Department of Education, AP Pilot Press Release, Sept. 23, 2013; Tennessee Department of Education, Director Update, Oct. 8, 2013; Tennessee Department of Education, e-mail and attachment, Oct. 7, 2014.
- <sup>14</sup> Tennessee Department of Education, e-mail and attachment, Oct. 7 2014.
- <sup>15</sup> Tennessee Department of Education, e-mail and attachment, Oct. 7 2014.
- <sup>16</sup> Knox County Schools did not have an explicit deadline for its MOU. Tennessee Department of Education, Memorandum of Understanding with Knox County Schools, signed by school officials in April 2014.
- <sup>17</sup> Tennessee Department of Education, e-mail, Aug. 18, 2014.
- <sup>18</sup> College Board, *2013-14 AP Bulletin for AP Students and Families*, 2014, <http://professionals.collegeboard.com/> (accessed March 19, 2015); Tennessee Department of Education, *2014 Federal AP Exam Grant Procedures for Economically Disadvantaged Students*, <http://www.tn.gov/education/> (accessed March 19, 2015).
- <sup>19</sup> College Board, Fees and Fee Reductions, “AP Exam Fees and Available Reductions,” <http://professionals.collegeboard.com/> (accessed Feb. 11, 2015).
- <sup>20</sup> College Board, *Fee Reductions for AP Exams*, <http://professionals.collegeboard.com/> (accessed Feb. 11, 2015). Schools participating in the AP Math Pilot and AP Knox County Pilot waive the College Board rebate for all exams taken by students in pilot schools. Tennessee Department of Education, e-mail May 7, 2015.
- <sup>21</sup> Tennessee Department of Education, Advanced Placement Test Fee Program, Budget Narrative, Section A – Budget Summary: U.S. Department of Education Funds, undated. Schools participating in the AP Math Pilot and AP Knox County Pilot are not eligible to use the federal APTF funds. Tennessee Department of Education, e-mail, May 7, 2015.
- <sup>22</sup> Tennessee Department of Education, AP Pilot Press Release, Sept. 23, 2013.
- <sup>23</sup> Tennessee Department of Education, *2014 Federal AP Exam Grant Procedures for Economically Disadvantaged Students*, <http://www.tn.gov/education/> (accessed March 19, 2015); College Board, Fees and Fee Reductions, “AP Exam Fees and Available Reductions,” <http://professionals.collegeboard.com/> (accessed Feb. 11, 2015); College Board, *2013-14 AP Bulletin for AP Students and Families*, 2014, <https://professionals.collegeboard.com/> (accessed March 19, 2015). Schools participating in the AP Math Pilot and AP Knox County Pilot are not eligible to use the federal APTF funds. Tennessee Department of Education, e-mail, May 7, 2015.
- <sup>24</sup> College Board, Fees and Fee Reductions, “AP Exam Fees and Available Reductions,” <http://professionals.collegeboard.com/> (accessed Feb. 11, 2015).

- <sup>25</sup> Tennessee Department of Education, AP Pilot Press Release, Sept. 23, 2013; Tennessee Department of Education, Director Update, e-mail, October 8, 2013.
- <sup>26</sup> Educational Testing Service, *Access to Success: Patterns of Advanced Placement Participation in U.S. High Schools*, July 2008, pp. 3-4, <http://www.ets.org/> (accessed Feb. 10, 2015).
- <sup>27</sup> Tennessee Department of Education, e-mail attachment, April 30, 2014.
- <sup>28</sup> Tennessee Department of Education, e-mail and attachment, Oct. 7, 2014; Tennessee Department of Education, 2013-14 AP Exam Fee Pilot, Talking Points.
- <sup>29</sup> Tennessee Department of Education, "Report Card 2013-14," <http://tn.gov/education/> (accessed Feb. 10, 2015).
- <sup>30</sup> Ibid.
- <sup>31</sup> United States Department of Education, Office of Planning, Evaluation and Policy Development, Policy and Program Studies Service, *National Assessment of Career and Technical Education, Interim Report*, 2013, p.15, <https://www2.ed.gov/> (accessed March 19, 2015).
- <sup>32</sup> The National Association of State Directors of Career Technical Education Consortium, *The State of Career Technical Education: An Analysis of State CTE Standards*, 2013, p.5, <http://www.careertech.org/> (accessed March 19, 2015).
- <sup>33</sup> Robert D. Muller and Alexandra Beatty, Practical Strategy LLC, *Work Readiness Certification and Industry Certifications and Industry Credentials: What Do State High School Policy Makers Need To Know?*, Achieve, Nov. 18, 2008, p.5, <http://www.achieve.org/> (accessed March 19, 2015); Florida Department of Education, "Industry Certification," <http://www.fldoe.org/> (accessed March 18, 2015).
- <sup>34</sup> Tennessee Department of Education, AP CTE Pilot Analysis data, received July 29, 2014.
- <sup>35</sup> The Tennessee Department of Economic and Community Development identified the following as key industries: manufacturing, aerospace, automotive, chemicals and plastics, distribution and logistics, energy and technology, food and agribusiness, and health care and medical devices. See [http://tnecd.com/key\\_industries.html](http://tnecd.com/key_industries.html). Tennessee Department of Education, interview, Oct.9, 2014.
- <sup>36</sup> Tennessee Department of Education, 2013-15 Student Industry Certifications (SIC) Grant, Scoring Rubric.
- <sup>37</sup> Programs of Study are a sequenced set of CTE courses aligned to a specific industry within a Career Cluster. Tennessee Department of Education, Division of Career and Technical Education, *TDOE Programs of Study 2014-15*, <http://www.tn.gov/education/> (accessed March 20, 2015).
- <sup>38</sup> Tennessee Department of Education, 2013-15 Student Industry Certifications (SIC) Grant, Grant Application.
- <sup>39</sup> Tennessee Department of Education, e-mail attachment, "2013-15 AP-SIC Sites," July 15, 2014.
- <sup>40</sup> Tennessee Department of Education, 2013-15 Student Industry Certifications (SIC) Grant, Memorandum of Understanding.
- <sup>41</sup> Tennessee Department of Education, AP CTE Pilot Analysis data, received July 29, 2014.
- <sup>42</sup> Tennessee Department of Education, e-mail attachment, Oct. 24, 2014.
- <sup>43</sup> Offices of Research and Education Accountability, Superintendent Survey for AP Initiatives in High Schools in Tennessee, e-mail, Sept. 26, 2014.
- <sup>44</sup> Tennessee Department of Education, e-mail, Aug 28, 2014.
- <sup>45</sup> Tennessee Department of Education, e-mail and attachment, Oct. 7, 2014.
- <sup>46</sup> Tennessee Department of Education, AP CTE Pilot Analysis data, received July 29, 2014.

**PUBLIC CHAPTER NO. 351**

**HOUSE BILL NO. 705**

**By Representatives Harry Brooks, John DeBerry, Lollar**

**Substituted for: Senate Bill No. 634**

**By Senator Tracy**

AN ACT to amend Tennessee Code Annotated, Title 49, relative to education.

WHEREAS, the general assembly finds that high school students should be encouraged to enroll in and successfully complete more rigorous coursework, such as Advanced Placement (AP) courses, to enable success in postsecondary students; and

WHEREAS, the general assembly wishes to enhance the accessibility of AP courses for all students; and

WHEREAS, the general assembly finds that high school students interested in career and technical training also should be encouraged to pursue completion of rigorous coursework and successful passage of career and technical certification examinations; and

WHEREAS, the cost of taking AP examinations and career and technical certification examinations may discourage students from attempting these exams; now, therefore,

BE IT ENACTED BY THE GENERAL ASSEMBLY OF THE STATE OF TENNESSEE:

SECTION 1. Tennessee Code Annotated, Title 49, Chapter 1, Part 3, is amended by adding the following language as a new, appropriately designated section: -49-1-3\_.

(a)

(1) There is established a two-year pilot project to be operated by the department of education. The purpose of the project shall be to determine whether enhanced accessibility of AP courses and examinations and career and technical certification examinations encourages students to pursue completion of rigorous course work and successfully pass AP examinations and career and technical certification examinations.

(2) Pilot project participants enrolled in Advanced Placement courses shall not be required to pay any fee to take the AP examination.

(3) Pilot project participants enrolled in career and technical courses leading to certification or licensure in the field of study shall not be required to pay any fee to take the certification or licensure examination.

(4) The cost of the examination shall be the responsibility of the state, regardless of the score achieved on the examination by the student.

(b)

The pilot project shall be conducted in high schools to be selected by the commissioner of education. The high schools shall be selected so that the cost of the pilot project is no more than one hundred thousand dollars (\$1 00,000) per year.

(c)

(1) The office of research and education accountability (OREA) in the office of the comptroller of the treasury, with the assistance of the department of education, shall study the pilot project and shall report on the effectiveness of the project after the initial year of the project and at the conclusion of the project. In its report at the conclusion of pilot project, OREA shall make findings as to whether the project encouraged students to pursue completion of rigorous course work and successfully pass AP examinations and career and technical certification examinations. OREA shall make recommendations as to the potential of the project for expansion statewide. OREA shall submit its initial report to the education committees of the senate and the house of representatives by November 1, 2014, and its final report to the committees by November 1, 2015.

(2) If OREA, in consultation with the department, finds that the results of the two-year pilot project are promising, but that more study needs to be done before a final recommendation is issued, then department is authorized to continue the pilot program for an additional two (2) years, if funded.

*[Note that Section 2 of the public chapter did not pertain to the pilot program and is not reproduced here.]*

**Appendix B: AP Math pilot course enrollment, exam participation, and exam pass rate by pilot site for SY 2013-14, with data from school years 2008-09 through 2012-13 for historical comparison**

	Year	# of Students Enrolled	Total Exam Participation	Exam Pass Rate (%)
Cannon County HS	2008-09	--	0	NA
	2009-10	11	--	--
	2010-11	--	--	--
	2011-12	27	--	--
	2012-13	--	--	--
	2013-14	36	10	--
Central HS	2008-09	11	--	--
	2009-10	12	--	--
	2010-11	34	--	--
	2011-12	38	--	--
	2012-13	53	--	--
	2013-14	--	--	--
Heritage HS	2008-09	0	0	--
	2009-10	0	0	--
	2010-11	21	--	--
	2011-12	52	14	64.3
	2012-13	69	23	26.1
	2013-14	48	17	52.9
John Overton Comp HS	2008-09	--	34	26.5
	2009-10	77	12	16.7
	2010-11	109	14	--
	2011-12	88	31	19.4
	2012-13	70	32	9.4
	2013-14	89	81	3.7
Madison Academic Magnet HS	2008-09	34	--	--
	2009-10	21	--	--
	2010-11	35	--	--
	2011-12	66	12	75.0
	2012-13	60	13	61.5
	2013-14	51	16	62.5
McGavock Comp HS	2008-09	37	--	--
	2009-10	30	11	27.3
	2010-11	32	13	38.5
	2011-12	23	14	57.1
	2012-13	69	16	37.5
	2013-14	44	27	14.8

	Year	# of Students Enrolled	Total Exam Participation	Exam Pass Rate (%)
McMinn HS	2008-09	16	13	46.2
	2009-10	17	--	--
	2010-11	16	--	--
	2011-12	11	--	--
	2012-13	30	--	--
	2013-14	21	15	--
Oliver Springs HS	2008-09	--	0	NA
	2009-10	11	0	NA
	2010-11	11	0	NA
	2011-12	15	0	NA
	2012-13	18	0	NA
	2013-14	18	--	0.0
Smyrna HS	2008-09	14	--	--
	2009-10	0	--	--
	2010-11	38	11	18.2
	2011-12	53	--	--
	2012-13	48	11	72.7
	2013-14	28	--	40.0
Sullivan Central HS	2008-09	24	0	NA
	2009-10	13	0	NA
	2010-11	--	0	NA
	2011-12	15	--	--
	2012-13	--	--	--
	2013-14	18	17	5.9
Warren County HS	2008-09	36	13	23.1
	2009-10	32	--	--
	2010-11	31	13	61.5
	2011-12	32	16	50.0
	2012-13	26	--	--
	2013-14	35	31	29.0

Notes: (1) In cases where course enrollment accounts for students who are enrolled in more than one AP course, course enrollments will double count students. In cases where exam participation accounts for students taking more than one AP exam, exam counts will double count students.

(2) — = Data suppressed to protect student privacy.

(3) NA = not available because program was not in place during this year.

Source: Tennessee Department of Education.

**Appendix C: Knox County AP pilot total enrollment, exam participation, and exam pass rate by AP course for SY 2013-14, with data from school years 2008-09 through 2012-13 for historical comparison**

		Year	# of Students Enrolled	Total Exam Participation	Exam Pass Rate (%)
<b>English</b>	Language and Composition	2008-09	234	95	70.5
		2009-10	137	84	78.6
		2010-11	144	68	60.3
		2011-12	245	139	61.2
		2012-13	178	87	44.8
		2013-14	267	211	40.3
	Literature and Composition	2008-09	122	92	60.9
		2009-10	200	83	62.7
		2010-11	209	108	46.3
		2011-12	163	94	42.6
		2012-13	225	80	55.0
		2013-14	112	89	46.1
<b>Math and Computer Science</b>	Calculus AB	2008-09	140	--	--
		2009-10	130	--	0.0
		2010-11	99	15	6.7
		2011-12	114	14	21.4
		2012-13	129	21	--
		2013-14	106	12	
	Calculus BC	2008-09	101	74	45.9
		2009-10	92	59	59.3
		2010-11	74	38	60.5
		2011-12	74	37	37.8
		2012-13	80	42	35.7
		2013-14	81	66	27.3
	Statistics	2008-09	82	27	29.6
		2009-10	118	35	57.1
		2010-11	101	30	26.7
		2011-12	126	33	60.6
		2012-13	121	21	52.4
		2013-14	100	43	16.3

		Year	# of Students Enrolled	Total Exam Participation	Exam Success Rate (%)
<b>Sciences</b>	<b>Biology</b>	2008-09	25	15	40.0
		2009-10	39	30	33.3
		2010-11	92	62	30.6
		2011-12	64	46	47.8
		2012-13	59	37	54.1
		2013-14	93	79	35.4
	<b>Chemistry</b>	2008-09	23	13	53.8
		2009-10	32	24	54.2
		2010-11	52	26	57.7
		2011-12	51	35	94.3
		2012-13	41	23	39.1
		2013-14	83	49	18.4
<b>History and Social Science</b>	<b>United States History</b>	2008-09	257	75	46.7
		2009-10	209	56	60.7
		2010-11	249	86	32.6
		2011-12	203	81	30.9
		2012-13	239	96	41.7
		2013-14	267	191	15.7
	<b>United States Government and Politics</b>	2008-09	108	11	45.5
		2009-10	134	12	50.0
		2010-11	183	98	32.7
		2011-12	320	139	32.4
		2012-13	127	68	42.6
		2013-14	148	118	38.1
	<b>European History</b>	2008-09	107	43	46.5
		2009-10	68	31	67.7
		2010-11	93	28	50.0
		2011-12	--	--	--
		2012-13	74	24	54.2
		2013-14	60	40	45.0

Notes: (1) In cases where course enrollment accounts for students who are enrolled in more than one AP course, course enrollments will double count students. In cases where exam participation accounts for students taking more than one AP exam, exam counts will double count students.

(2) -- = Data suppressed to protect student privacy.

Source: Tennessee Department of Education.

**Appendix D: CTE/SIC pilot by exam and pilot site – course enrollment, student economic status, number of exams taken, number of exams passed for SY 2013-14, with data from school years 2008-09 through 2012-13 for historical comparison**

**Certified Nursing Assistant exam**

**Anderson County – ACCTC and Clinton HS**

YEAR	CTE Course Enrollment	Economically disadvantaged students	Total # SIC exams	Number of exams with a passing score
2013-14*	--	--	--	--
2012-13*	--	--	--	--
2011-12	0	0	0	--
2010-11	NA	NA	NA	NA
2009-10	NA	NA	NA	NA
2008-09	NA	NA	NA	NA

Notes: (1) \*The CNA course is offered as an evening class at ACCTC. Numbers include student attending ACCTC and Clinton High School in Anderson County.

(2) NA = not available because program was not in place during this year.

(3) — = Data suppressed to ensure student privacy.

**Certified Nursing Assistant exam**

**Columbia Central HS**

YEAR	CTE Course Enrollment	Economically disadvantaged students	Total # SIC exams	Number of exams with a passing score
2013-14	11	--	11	10
2012-13	15	--	15	13
2011-12	--	--	--	--
2010-11	--	--	--	--
2009-10	21	--	21	19
2008-09	0	0	0	--

**Certified Nursing Assistant exam**

**Wilson County - Lebanon HS**

YEAR	CTE Course Enrollment	Economically disadvantaged students	Total # SIC exams	Number of exams with a passing score
2013-14*	45	--	40	34
2012-13	21	--	14	--
2011-12	23	--	17	12
2010-11	29	--	23	19
2009-10	35	--	29	22
2008-09	NA	NA	NA	NA

Notes: (1) \*According to data from TDOE, only 10 students who took the exam were reimbursed through the pilot. Seven of the students who were reimbursed passed the test; 28 students took the SIC exam during the first semester, and thus were not reimbursed for the test through the pilot.

(2) NA = not available because program was not in place during this year.

(3) — = Data suppressed to ensure student privacy.

**Certified Nursing Assistant exam****State - York Institute**

YEAR	CTE Course Enrollment	Economically disadvantaged students	Total # SIC exams	Number of exams with a passing score
2013-14*	18	--	18**	14
2012-13	--	--	--	--
2011-12	21	14	21	--
2010-11	--	--	7	--
2009-10	NA	NA	NA	NA
2008-09	NA	NA	NA	NA

Notes: (1) \*In order to help prepare students who took the CNA exam, the CNA instructor at York Institute introduced mock examinations with outside professionals during SY 2013-14.

(2) \*\*According to state records, the number who took the exam was 24.

(3) NA = not available because program was not in place during this year.

(4) — = Data suppressed to protect student privacy.

**First Responder exam****Anderson County – ACCTC**

YEAR	CTE Course Enrollment	Economically disadvantaged students	Total # SIC exams	Number of exams with a passing score
2013-14	14	12	12	
2012-13	NA	NA	NA	NA
2011-12	NA	NA	NA	NA
2010-11	NA	NA	NA	NA
2009-10	NA	NA	NA	NA
2008-09	NA	NA	NA	NA

Note: NA = not available because program was not in place during previous year.

**CompTIA A+ IT Technician exam****Spring Hill HS**

YEAR	CTE Course Enrollment	Economically disadvantaged students	Total # SIC exams	Number of exams with a passing score
2013-14	39	0	--	--
2012-13	0	0	0	--
2011-12	47	0	--	--
2010-11	0	0	--	--
2009-10	41	0	0	--
2008-09	0	0	--	--

Note: — = Data suppressed to protect student privacy.

**American Welding Society exam**

**Bradley County - Bradley Central HS**

YEAR	CTE Course Enrollment	Economically disadvantaged students	Total # SIC exams	Number of exams with a passing score
2013-14	15	--	--	--
2012-13	17	--	--	--
2011-12	15	--	--	--
2010-11	16	NA	NA	NA
2009-10	18	NA	NA	NA
2008-09	20	NA	NA	NA

Note: (1) NA = not available.

(2) -- = Data suppressed to protect student privacy.

**ServSafe exam**

**Loudon County - Loudon HS**

YEAR	CTE Course Enrollment	Economically disadvantaged students	Total # SIC exams	Number of exams with a passing score
2013-14	105	66	46	36
2012-13	NA	NA	NA	NA
2011-12	NA	NA	NA	NA
2010-11	NA	NA	NA	NA
2009-10	NA	NA	NA	NA
2008-09	NA	NA	NA	NA

Note: NA = not available because program was not in place during this year.

**ServSafe exam**

**Metro Nashville - Hunters Lane HS**

YEAR	CTE Course Enrollment	Economically disadvantaged students	Total # SIC exams	Number of exams with a passing score
2013-14	119	--	10	--
2012-13	NA	NA	NA	NA
2011-12	NA	NA	NA	NA
2010-11	NA	NA	NA	NA
2009-10	NA	NA	NA	NA
2008-09	NA	NA	NA	NA

Notes: (1) NA = not available because program was not in place during this year.

(2) -- = Data suppressed to protect student privacy.

Sources for all tables in Appendix D: Compilation of data supplied by the Tennessee Department of Education and LEAs.



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