Expanding College Opportunity

An Annual Report on Dual Credit and Other Post Secondary Opportunities for Stark County High School Students









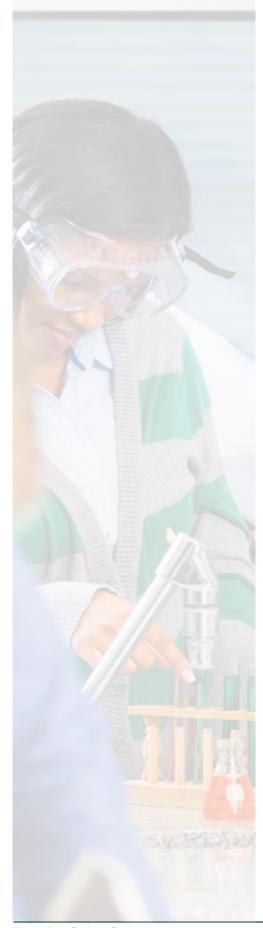




Expanding College Opportunity - funded by Dominion — is the eighth in a series of reports by the Stark Education Partnership on the growth of high school based dual credit courses (HSBDC) in Stark County, Ohio. Prior studies include All Students Ready, Growing Dual Credit, Advancing College Opportunity, Growth & Impact, Reaching for 80%, and Return on Investment and may be seen at www.edpartner.org/publications or through the U.S. Department of Education's Education Resources Information System (ERIC) at http://www.eric.ed.gov/.



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Definitions

General

- Post Secondary Opportunities
 (PSOs) are initiatives that allow
 students to take classes to earn
 college credit (dual enrollment) while
 in high school or claim college credit
 (accelerated learning) upon future
 admission to a college or university.
- Memoranda of Understanding (MOUs)
 are separate written agreements
 between school districts and institutions
 of higher education governing policies
 and costs for students taking college
 courses while in high school.

Dual Enrollment Programs

- High School Based Dual Credit (HSBDC) is a course offered on a high school campus through a collaborative agreement (MOU) between an institution of higher education and a
- school district. A student may earn both high school and college credit for the course taught by a high school teacher who qualifies as a college adjunct.

- Canton's Early College High School (CECHS) offers students the opportunity to earn both a high school diploma and an associate degree within four years.
- Ohio's traditional Post Secondary Enrollment Options (PSEO) program allows students to gain college or dual credit by taking a
- course primarily on a college campus and is outlined in legislation.
- College Based Credit (CBC)
 is a course taught on a college
 campus that students take under a
 collaborative agreement (MOU)
 between an institution of higher
 education and a school district. CBC
 may also result in high school credit.

Accelerated Learning Opportunities

- Career Technical Education/Tech Prep Programs (CTE) provide opportunities for students to receive college credit for courses after enrolling in a college or university having an articulation agreement in place with a K-12 district. CTE can also be HSBDC.
- Advanced Placement (AP) is a course where passing a standardized test at a score of 3 or higher may result in college credit at many colleges and universities upon admission.

College Credit Plus

- College Credit Plus (section 3365.02 of the Ohio Revised Code) was established by Sub HB 487 (130th General Assembly) in 2014. Beginning with the 2015-2016 school year, the program will incorporate what is described in this report as HSBDC, CBDC, and conventional PSEO courses. College Credit Plus will not, however, include other
- postsecondary opportunities such as Advanced Placement (AP), Early College High School, International Baccalaureate or, until July 1, 2016, a career-technical education program that is approved by the department of education under section 3317.161 of the Ohio Revised Code that grants articulated credit to students participating in that program.

Executive Summary

Post secondary opportunities (PSOs) for high school students continued to grow in Stark County during the 2013-14 academic year. School districts increased their focus on developing a college-going culture through Advanced Placement and Career Technical courses and by local partnerships with higher education that expanded dual credit offerings.

- Enrollments in high school based dual credit (HSBDC) courses reached an all-time high of 3,731 by 1,763 students.
- Another 331 students accounted for 661 enrollments in college based dual credit (CBDC) courses under partnership (MOU) agreements between districts and colleges.
- The number of Advanced Placement (AP) students again surpassed

- the 2,000 mark as 2,252 students qualified for an estimated 3,945 three-hour college course equivalents by scoring 3+ on AP Tests.
- Nine hundred fifty nine students were enrolled in college-tagged Career Technical/Tech Prep courses with the potential to claim credit for 1,790 three-hour college courses.

Stark County's PSOs have produced the following specific outcomes:

• A duplicated count of 5,577 students accounted for 11,200 enrollments in three-hour college course equivalents. This provides a potential tuition savings between \$5,163,200 at a two-year public and \$27,104,721 at a four year private college or university. Textbook savings would amount to another \$761,600.

http://www.jff.org/initiatives/ early-college-designs#. U3o3ZrSP5r4

- The direct college-going rate of HSBDC students is 84.2%, exceeding Stark County's direct rate of 63%, the state at 62.7% and the national average of 63.3% for all students. This rate also betters Stark's collegegoing rate of 73% within two years of graduation.
- Stark County at 49.3% and the City of Canton at 54.3% have a greater percentage of young adults, age 18 to 24, in the college education pipeline than Ohio at 45.4% or the nation at 46%.²

² U.S. Census ACS 2013 1-year figures

Stark County's PSOs at Year Eight

"The success and sustainability of Dual Enrollment programs rests on the strength of the local district-college partnership" – SRI International³

Fewer than half the students graduating from high school in Stark County went to college in 2001. The education pipeline narrowed right after high school.

In 2005, the Canton City School
District (CCSD) – along with Stark
State College (SSC), the Canton
Professional Educators Association
(CPEA) and the Stark Education
Partnership (SEP) – went to work on
this pipeline. Funded by the Bill and
Melinda Gates Foundation through
KnowledgeWorks and the state of
Ohio, the Canton Early College High
School (CECHS) was established.

The following year, SEP and SSC joined with the Stark County Educational Service Center (SCESC) in launching a pilot program offering high school based

dual credit (HSBDC) for 65 students. During the next two years, HSBDC continued to grow with support from Ohio House Bills 115 and 119 (127th General Assembly) and through Early Adopters Grants under the governor's Seniors to Sophomores program. By the end of 2008-9 academic year, an estimated 1,294 Stark County students had earned nearly 4,000 hours of college credit. Stark County was well on its way to meet the intent of the Ohio State Legislature as expressed in HB 115 "to develop scalable and high quality models to promote the expansion of dual enrollment ... to provide access for students who have not had the opportunity through PSEO or other programs to gain college credit."4

In 2007 the SCESC, representing all 17 schools districts and six local colleges

³ See: Dual Enrollment: Lessons Learned on School Level Implementation at http:// www2.ed.gov/programs/slcp/ finaldual.pdf

Ohio Department of Education (2007). HB 115 RFP. Columbus: Author

and universities, formed the first local Memorandum of Understanding (MOU) on dual credit. This agreement, in accordance with HB 115, set the framework for further local partnership agreements. The MOUs are reviewed annually and continue to this day.

The result has been phenomenal and sustained growth, not only in HSBDC but in other post secondary opportunities for Stark County students. The education pipeline has widened considerably after high school. In scarcely a decade, Stark County has seen its direct college-going rate increase to 63%, effectively matching the state average of 62.7% and the national average of 63.3%. The county's

"within two-year" college-going rate is even more dramatic at 73%.

This is the eighth annual report by the Stark Education Partnership on dual enrollment and other post secondary opportunities (PSOs) for the county's high school students. In addition to dual enrollment, this report will look at a portfolio of the county's PSOs that includes Canton Early College High School, and the opportunity to bank future college credit through Advanced Placement (AP) and Career Technical Education (CTE) coursework. Together, all these options represent an ongoing local commitment to increase college attainment and build a workforce best suited to meet the future needs of Stark County and Ohio.

Dual Credit

Memoranda of Understanding (MOUs) between school districts and institutions of higher education have increased the opportunites for dual credit in Stark County. These local partnerships increase services while reducing costs.

The Stark County Educational Service Center (SCESC) conducts a yearly process to review and modify existing MOUs. MOUs govern both courses taught at high schools and on college campuses

High School Based Dual Credit (HSBDC)

High School Based Dual Credit (HSBDC) courses are taught either by qualified high school teacher adjuncts, or on-line. HSBDC began with two teachers, 65 students and two courses in a pilot funded by the Stark Education Partnership (SEP) in the summer of 2006. Prior to this pilot, the only way for a Stark County student to earn college, or both college and high school, credit was to attend a class on a college campus through Ohio's PSEO program.

During the 2013-14 academic year:

- All districts executed Memoranda of Understanding with higher education partners.
- All Stark County high schools offered HSBDC. Districts offered a combined total of 299 sections of dual credit courses – an increase over the 238 sections offered in 2012-13.

- Course enrollment was 3,731 for 1,763 students.
- Students successfully earned a "C" or higher in 95% of all enrollments.
- These enrollments translated to 10,553 credit hours or 3,517 threehour college courses, or course
- equivalents, a slight increase over 10,524 credit hours or 3,508 three-hour college courses in 2012-13.
- Fifty-four percent of all dual credit sections were in the STEM (Science, Technology, Engineering and Math) disciplines. Math alone accounted for 71 sections with 1,154 enrollments.

College Based Credit

College Based Dual Credit (CBDC) is similar to conventional PSEO in that high school students enroll in a collegelevel course taught at a college or university campus by a professor.

In 2013-14, the largest CBDC enrollment was at Stark State College with 538 classes. An additional 123

enrollments took place at Akron (10), Kent (57), Malone (9), Mount Union (38) and Walsh (9) Universities, either under conventional PSEO or MOU arrangements bringing the total CBDC enrollment to 661 or 1,983 college hours. It is estimated that 331 students accounted for an average of two enrolments or six college hours each.⁵

⁵ The six hour estimate for credit earned on college campuses is not inconsistent with findings by KnowledgeWorks and WICHE (2007) The Promise of Dual Enrollment: Assessing Ohio's Early College Access Policy that found half of students taking more than six hours.

Additional Post Secondary Opportunities

Canton Early College High School (CECHS)

CECHS allows students to earn both a diploma and an associate degree during their high school career.

During the 2013-14 academic year:

- Twenty-seven distinct college courses were offered at CECHS.
- Two hundred fifty-nine CECHS students earned 3,111 credit hours or the equivlent of 1,037 three-hour college courses.

- With CECHS's sixth class, the total number of graduates reached 301.
- Sixty percent, or 182 students, have graduated with associate degrees.
- Thirty-six students in 2014 graduated with dual AA and AS degrees.
- The Return on Investment (ROI) based on the education received in projected additional lifetime earnings and taxes paid now exceeds \$92 million.

Advanced Placement Courses (AP)

Completing an AP course allows students to take a standardized test to qualify for college credit at participating colleges and universities. Credit granted can range from three to 15 college hours depending on the course and the score students earn on the test.

- 2,252 students enrolled in AP courses in 2013 an increase over 2,176 students in 2012.
- A score of 3 or better (qualifying for credit) was achieved on 2,367 tests for a pass rate of 64%. Test results for 2014 are not yet available.
- For the 2012-13 academic year, Stark County districts offered 161 sections of 25 separate AP courses, |up from 157 sections the year before.6

Career Technical Courses: Articulation Agreements

During the 2013-14 academic year, there were 959 students enrolled in 1,790 Career Technical courses at Stark County high schools and R.G. Drage Career

Center. Each course enrollment carries the potential to claim three college hours upon enrolling in the same program area at a partner college or university.⁷

⁶ Sources: The College Board and the AP Course Audit at: http:// www.collegeboard.com/html/ apcourseaudit/

⁷ Figures here are estimates. It is not known how many such agreements currently exist. For difficulties in accurately measuring CTE college credit see Ohio Board of Regents & Ohio Department of Education (2014). Report and Recommendations Regarding Postsecondary Credit Opportunities in Career-Technical Education. Columbus: Authors

Outcomes of Stark County's Post Secondary Opportunities

In 2005, when the Stark County community created its first partnership to increase dual enrollment with the establishment of CECHS, the county's history of low college attainment was being sustained by a low college going rate (49%) among its youth. The first priority was to increase that rate.

Yet, educators and policy-makers knew increasing the college going rate was only the first step; students had to actually earn a degree. Unfortunately, in Ohio and elsewhere throughout the nation, that prognosis was not good. In Ohio, 27.1% graduated with an Associate Degree in three years (nation, 29.2%) and 54.7% (nation, 55.5%) with a Bachelor's in six years.8

While the goal of earning a college degree could be readily charted for

CECHS, such a measure becomes problematic for other PSOs due to the time involved in earning a degree and the relative "newness" of several interventions that have only dramatically expanded since 2009. For students who enroll in HSBDC courses as freshmen, for instance, college completion may be a decade away.

Given these limitations, there are three important mid-term outcomes that can be charted for Stark County students. All are necessary, though perhaps not sufficient in themselves, to increase degree completion. Beyond these three outcomes, there is a telling global indicator. If PSOs are proving successful, than the college enrollment pipeline must be expanding.

Bota for year 2009 from NCHEMS Information Center at: http://www.higheredinfo. org/

College Access

In 2006, the year of the first HSBDC pilot, Stark County's high school to college going rate was 51%. Today, direct college enrollment (next fall) is 63% and increases to 73.1% within two years of graduation. Results for Stark County dual enrollment students are even higher.

When records were reviewed⁹ for 1,698 HSBDC students from 2008 and 2009, it was found that 82.4% had enrolled in college. This rate far exceeds the Ohio average at 62.7% and the national average of 63.3% for all students.

Affordability

The Project on Student Debt¹⁰ ranks Ohio as ninth among the states with 69% of students at public four-year institutions carrying student loan debt. The average is \$29,037.

A study funded by the Lumina Foundation, the Center for College Affordability and Productivity (CCAP) found that savings from accumulating college credit in high school had "the potential to be immense both for the student and the public." The Center further noted students could reduce the total cost of a college education by up to 12.5% if they earned a semester of credit in high school.

This would not only lessen the financial burden on students but also on taxpayers since states subsidize public higher education. In fact, CCAP notes that for every 1 million students entering college with a semester's worth of early credits, the cost of college could be reduced by over \$9.5 billion dollars."

Stark County's portfolio of PSOs offers a substantial opportunity for students and families to earn or bank college credit at no cost for tuition or books. This potential savings amounts to millions on an annual basis.

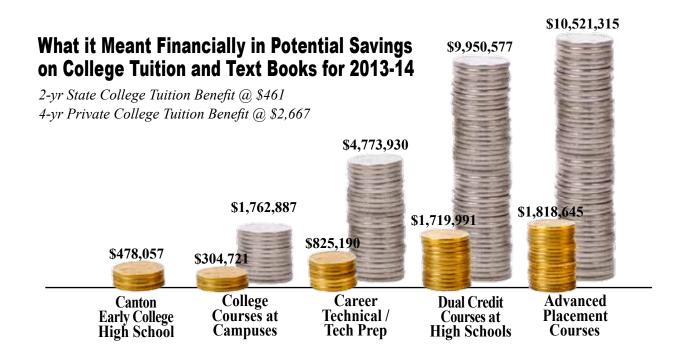
⁹ National Student Clearinghouse Student Tracker records for all Stark County districts.

¹⁰See Ohio at: http:// projectonstudentdebt.org/ state_by_state-view2013. php?area=OH

¹¹ See: The Center for College Affordability and Productivity, 25 Ways to Reduce the Cost of College: #2 Promote Dual Enrollment Programs at http:// centerforcollegeaffordability.org/

Stark County Post Secondary Opportunities 2013-14 Range of Potential College Cost Savings to Students and Families

Post Secondary Opportunity	HSBDC	CBDC/ PSEO	CECHS	AP ¹²	College Tech Prep	Total ¹³
Number of Students	1,763	331	259	2,252	959	5,564
Number of 3 Credit Hour Courses or Equivalents	3,731	661	1,037	3,945	1,790	11,164
Low Range Tuition Benefit @ \$461 ¹⁴	\$1,719,991	\$304,721	\$478,057	\$1,818,645	\$825,190	\$5,146,604
Mid Range Tuition Benefit @ \$1,368	\$5,104,008	\$904,248	N/A	\$5,396,760	\$2,448,720	\$13,853,736
High Range Tuition Benefit @ \$2,667	\$9,950,577	\$1,762,887	N/A	\$10,521,315	\$4,773,930	\$27,008,709
Textbook Benefit @ \$6815	\$253,708	\$44,948	\$70,516	\$268,260	\$121,720	\$759,152



¹²The estimate here is slightly under 5 college semester hours for successfully passing an AP exam at 3+. There is no consistent rule on college acceptance or award of credit. Depending on the test and the level (3, 4, 5) at which a test is passed, institutional credit awards, such as at Kent State, can range from 3 (European History) to as high as 15 hrs. (Calculus BC at 4 or 5). See: Ohio Board of Regents, Advanced Placement Credit Awards. Results are based on 2013 pass rates as aggregated 2014 results will not be available to SEP until November.

¹³Note: Student count may be duplicated. For instance, an AP student also taking HSBDC or a College Tech Prep student taking CBDC.

¹⁴Tuition ranges based on Ohio summer or fall 2014 for 2 year public (low range) to state four-year (mid-range) to private four year institutions (high range) and includes applicable fees. Low range based on Stark State College tuition. Mid range based on Kent State main (including general fee) and high range on Walsh University. These are the largest public and private destinations for Stark County students.

¹⁵2012 average for new textbook at NACS (National Association of College Stores) Research, *Higher Education Retail Market Facts & Figures*, 2013: See http://www.nacs.org/research/industrystatistics/higheredfactsfigures.aspx

Persistence

A key measure of persistence is first to second year retention, meaning students who return for a second year of college. In 2005, before Stark's first high school based dual enrollment pilot, that rate was 77% both for the state and county. The

last published figures for Ohio show that rate as being 75% for public and 78% for private institutions in the fall of 2010. 16 Stark's rate was 83% for public and 93% for private. 17

Expanded Pipeline: A New Look at Attainment

Education attainment can be viewed as actual, or it can be seen as a pipeline supporting real and potential degrees. By the conventional "real" measure of a bachelor's degree or higher – usually for those 25 and over – Stark at 22.3% unquestionably trails Ohio at 26.1% and the nation at 29.6%.

Looking at "potential" measures for young adults, those who are just beginning to be impacted by local dual enrollment and other post secondary efforts, the result is entirely different. By this measure, the City of Canton has a greater percentage of young adults in the total pipeline than Ohio or the nation and Stark is closing the gap on Bachelor's or higher.

Education Attainment Adults - Age 18 to 2418

	Some College or Associate Degree	Bachelor's Degree or Higher	Total
U.S.	46.0%	9.7%	55.7%
Ohio	45.4%	9.5%	54.3%
Stark	49.3%	6.6%	55.9%
City of Canton	54.3%	2.7%	57.0%

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¹⁶ Ohio Board of Regents (2012). First to Second Year Retention at Ohio's Public and Private Colleges and Universities Fall 2004 to Fall 2009 Cohorts of First-Time, Full-Time, Degree-Seeking Undergraduates. Columbus: Author.

¹⁷ National Student Clearinghouse.

¹⁸Source: US Census 2013 American Community Survey

Conclusion: Eight Years of Growing College Opportunity

In 2007, a review by the Stark Education Partnership concluded that, "the evidence supports (Stark County) is evolving a dual credit program in advance of the state that is not PSEO but a different construct. There is evidence that this program is expanding beyond the Ohio HB 115 pilot and becoming self generating."¹⁹

Such an expansion was necessary. While Ohio House Bill 115 had set aside \$3.6 million to establish high school based dual credit, the intent of the legislation was clearly on the establishment of local partnerships. Contracts, or MOUs, between school districts and institutions of higher education for dual credit in mathematics, science, or foreign language were to result. HB 115 was then followed by HB 119 and the governor's Seniors to Sophomores (S2S) program in 2008 that included dual credit courses on high school campuses as an option. The significance of S2S was that for the first time the state began to modify the requirements that

had kept PSEO as a program for higher performing students. S2S required that students complete Algebra II and three years of high school English with a grade of "C" or better, and score college ready on the college partner's placement assessment as then "currently defined" by the college.²⁰

Neither the House Bills nor the S2S program were meant to be revisions of PSEO; they were meant to be alternatives that shifted the focus of dual credit towards courses that were to be taught on high school campuses for greater numbers of students. In order for that to work in the long-term, local partnerships and agreements were needed between school districts and institutions of higher education.

Such agreements (MOUs) took place in Stark County. The result was an expansion of dual credit far beyond what had been achieved through the conventional PSEO program and a widening of the education pipeline.

¹⁹ Rochford, J. & Gelb, A. (2007). All Students Ready: A Process and Outcome Evaluation of the Region 9 Dual Credit Program in Columbiana, Stark and Wayne Counties Under House Bill 115.Canton, Ohio: The Stark Education Partnership, Inc

Ohio Board of Regents (2008). Request for Applications – Seniors to Sophomores Early Adopters Program. Columbus: Author.