

2014

Prepared by Michigan Virtual University®

A REPORT TO THE

LEGISLATURE



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A REPORT TO THE LEGISLATURE

Prepared by Michigan Virtual University

December 1, 2014

This report is submitted in compliance with Section 98 (6) of Public Act 196 of 2014, which requires the *Michigan Virtual University*® (*MVU*®) to provide, not later than December 1 of each fiscal year, a report to the House and Senate Appropriations Subcommittees on State School Aid, the State Budget Director, the House and Senate Fiscal Agencies and the Department of Education that includes specific information related to the *Michigan Virtual School*® (*MVS*®) for the preceding fiscal year.

Background

The *Michigan Virtual School*, *Michigan LearnPort*®, and *Michigan Virtual Learning Research Institute*™ are the core divisions of *MVU*, a 501(c)(3) nonprofit organization that works in partnership with K-12 schools to supplement and expand online learning opportunities. For the past 16 years, *MVU* has provided leadership to accelerate the adoption and use of online learning within Michigan. Working in partnership with hundreds of Michigan schools, *MVU* offers classes to students and professional development programs for educators through online, web-based services. *MVS* was created by Public Act 230 of 2000 to serve both traditional and nontraditional students, and since its inception, *MVS* has recorded over 159,000 course registrations.

During the 2013-14 academic year, *MVS* had 21,253 course registrations. *MVS* offers a broad range of core academic courses aligned with state standards, college-level equivalent courses, remedial, enrichment and world language courses, and other innovative online experiences. Other *MVU* services include *Michigan LearnPort*, a statewide web-based professional development system that provides more than 1,900 online courses, videos, webinars, and training modules for Michigan educators and school employees, and *myDreamExplorer*® (*MDX*), an online career exploration tool that includes a rich collection of planning resources that supported over 18,000

middle and high school students during 2013-14. Last year, *MVU* launched *MyBlend*, a program offering blended learning resources, products, and services to schools to aid them in providing personalized learning options to their students to support improved student achievement.

Funding for *MVS* is provided through a combination of annual appropriations from the Legislature, reduced course fees charged to enrolling schools, and private grant funds. *MVS* does not grant course credit or award diplomas independently, but works in partnership with local and intermediate school districts that award credit or diplomas.

In 2011, *MVS* was awarded a five-year accreditation renewal by AdvancED®. This comprehensive evaluation process recognizes *MVS*'s commitment to providing high quality online instructional services. As part of this continued quality improvement process, *MVS* submitted an annual update for the 2013-14 academic year to AdvancED documenting its improvement efforts.

MVS continues to be recognized as one of the leading and largest virtual schools in the U.S., and it works in collaboration with a national network of K-12 online learning organizations to promote the development of high quality programs and services for students and educators.

Expanding Educational Opportunities in Michigan

MVU has played three key roles to support and accelerate the growth and development of online learning in Michigan's K-12 schools. Initially the organization served as a change agent at a time when most school leaders and parents were not familiar with online learning. Over the past decade, *MVU* has invested significant time and resources to create a general awareness of online learning for Michigan's policy makers, educators, parents and students.

As school leaders developed an appreciation for the value and potential of online instruction, *MVU* also became a service provider of high quality online courses and career planning tools. These efforts included helping schools develop local support systems to ensure student success through mentor training, technical support and helpdesk services. *MVU* also introduced innovative online professional development programs and services for all Michigan K-12 education personnel.

A third role for *MVU* has evolved as schools adopt locally-developed online learning programs, including blended models using classroom-based and online resources. For *MVU*, this capacity-building role includes helping schools with teacher training, acquiring online content, online assessments, quality assurance, evaluation, and infrastructure and technical support services through its recently launched *MyBlend* program.

In 2012, the Michigan Legislature asked *MVU* to establish a center for online learning research and innovation, and through this center, directed *MVU* to engage in a variety of strategic initiatives to advance understanding of the interrelationship of learning and technology. The center, now formally known as the *Michigan Virtual Learning Research Institute™ (MVLRI™)*, is a natural extension of the work of *MVU*.

In 2014, *MVU* completed an eight-month organizational strategic planning process using both internal and external stakeholders to review and update *MVU*'s vision, mission, and strategic goals, including formal input and support from the *MVU* Board of Directors.

Four important planning assumptions helped shape discussion:

1. Michigan's K-12 education system must leverage the power and potential of technology tools to differentiate instruction, achieve new efficiencies and make learning more relevant for today's students.
2. Online and blended learning will serve as critically important instructional strategies to personalize learning for all students in the state.
3. The transition to the future for the K-12 community will likely be fraught with resistance to change. There will be many trials and errors with no clear road map that guarantees student success and system sustainability.
4. The need for leadership, research and capacity building support is essential for the K-12 system, and *MVU* is uniquely positioned to facilitate system level changes.

Recognizing these challenges, *MVU*'s strategic plan identified four key roles for the organization:

- Leadership – Demonstrate expertise in online and blended learning through success.
- Innovation & Research – Leverage our capacity to develop, study, and energize the adoption of new educational delivery models.
- Quality Services – Improve continuously in what we do through attention to feedback.
- Capacity Builder – Elevate *MVU* and the K-12 community to support digital learning environments.

These roles and recommendations from the *MVU* strategic plan refine the general direction of the company rather than set a radical new path. For the foreseeable future, schools will continue to need assistance in developing competencies with teaching and supporting online and blended learners.

Despite more than a decade of expansion in online learning, only a fraction of schools and learners have actively participated in these new delivery models. *MVU*, through *Michigan LearnPort* and *MyBlend*, is positioned to continue providing the K-12 community with courses, resources and services that will help support local districts as they broaden student opportunities. Through *MVLRI*, ongoing research and evaluation into online and blended learning models will help Michigan schools and students to better incorporate and adapt to these new learning opportunities.

Scope of the Report

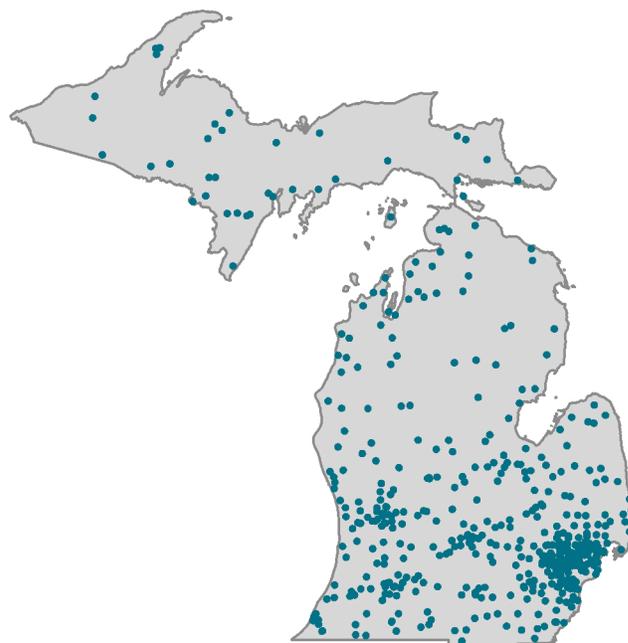
The information provided in this report addresses the requirements that are listed in Section 98 (6) of P.A. 196 of 2014. These items include, for the period October 1, 2013 - September 30, 2014, a list of districts served by *MVS*, a list of online course titles available to districts, course enrollment and completion rate information by course, and the overall completion rate percentage.

Districts Served by *MVS*

From October 1, 2013 - September 30, 2014, *MVS* served students enrolled in 378 different Michigan districts (471 entities within those districts). This included 301 Michigan local education agency districts (LEA Districts), 31 public school academy districts (PSA Districts), three intermediate school districts (ISD Districts), 42 nonpublic schools, and one State District. According to data available through the Center for Educational Performance and Information website (<http://www.cepi.state.mi.us/eem/EntitySearchQuick.aspx>), there were 548 open-active LEA Districts, 302 PSA Districts, 57 ISD Districts, 683 non-public schools, and five State Districts in October 2014. Using these counts as estimates for the 2013-14 school year, *MVS* served approximately 52% of LEA Districts, 10% of PSA Districts, 5% of ISD Districts, 6% of nonpublic schools and 20% of State Districts. A complete list of the Michigan districts served during 2013-14 is included in Exhibit 1.

These districts accounted for 19,260 *MVS* course enrollments over the past year. School enrollments in

Figure 1
Michigan Enrollments in the Michigan Virtual School by City and Zip Code during the 2013-14 School Year



MVS courses over the past year ranged from a single student enrollment to 915 student enrollments. The average number of enrollments per Michigan school using *MVS* during 2013-14 was 41. In addition, *MVS* had 1,862 student registrations from 1,211 Michigan home schools during 2013-14.

Figure 1 provides a geographic representation of where *MVS* enrollments came from for the public, nonpublic and home schools that enrolled students during the 2013-14 school year. During this period, schools and families in 75 of the state's 83 counties were supported with *MVS* online courses and programs.

In addition to serving Michigan schools and students, *MVS* had 52 enrollments from 11 schools outside of Michigan and 79 enrollments from 40 home schools outside of Michigan.

MVS Online Courses Available to Michigan Districts

Exhibit 2 provides a listing of the online courses offered by MVS to Michigan districts and parents during the period October 1, 2013 - September 30, 2014. These online courses include titles listed in the MVS course catalog for the corresponding fall, spring and summer semesters, as well as three trimesters during the fall and spring. The list includes 218 possible courses, representing core academic courses specifically aligned with the Michigan Merit Curriculum (MMC) and the Common Core, Advanced Placement® (AP®) courses, credit recovery courses, and summer enrichment experiences for students. These online courses include those developed by MVS and courses and content licensed from nationally recognized providers. A majority of MVS courses (83%) were offered at the high school level, though 41 online courses were available for middle school students during 2013-14.

MVS Online Course Completion and Pass Rates

Earlier this year, MVU, through the *Michigan Virtual Learning Research Institute*, published the first annual *Michigan's K-12 Virtual Learning Effectiveness Report* (available from <http://mvlri.org>). This publication used data reported to the state by Michigan public schools to examine all K-12 virtual enrollments in Michigan between the 2010-11 and 2012-13 school years.

To assist with comparisons between the statewide data presented in the *Effectiveness Report* and the data published in this report, MVU has changed the way it reports on MVS's performance. When schools report enrollment information to the state, one of the data components submitted is for a completion status field. For the 2014-15 school year, schools must select among 11 different completion statuses for an enrollment. (See page 499 of the *Michigan Student Data System (MSDS) Collection Details Manual Version 1.2*. Available from http://www.michigan.gov/documents/cepi/2014-15_MSDS_collection_details_454235_7.pdf). A few examples of completion statuses include: Audited, Completed/Passed, Completed/Failed, and Withdrawn/Exited.

Using this established framework for reporting on all

enrollments, a few important issues are evident. First, enrollments with a completion status of "Audited" exist where the student enrolls in the course without expecting or receiving credit. Because there is no performance expectation for such instances, MVU has removed any audited enrollments from MVS performance calculations. To remind readers of this removal, the phrase "credit- or grade-attempted enrollments" is used in performance calculations to indicate that audited enrollments have been excluded.

Second, a course "completion" is not synonymous with "passing" a course. As noted, schools currently differentiate when reporting to the state those enrollments that were completed but failed (Completed/Failed) from those that were completed and passed (Completed/Passed). Thus, "completion" as it is traditionally used by schools when reporting data to the state conveys the meaning of "finished" or "remained enrolled" throughout the course timeframe and does not signify whether the student earned a passing grade in the course for which credit would be granted.

To better align with this convention, this report uses the term "Completion Rate" to refer to the percentage of credit- or grade-attempted enrollments where the student finished or remained in the course through the last day of the academic term. A new calculation – "Pass Rate" – is used in this report to refer to the percentage of credit- or grade-attempted enrollments where the student earned 60% or more of the total course points (an indication of passing).

Another shift comes with how courses are grouped. In past reports, MVS courses were nested within six content areas: English, World Languages, Math, Science, Social Studies, and Other. Again, to allow for easier comparisons with data collected by the state, data in this report are grouped using the National Center for Education Statistics (NCES) Subject Areas that one is required to use when reporting data to the state. (See page 484 of the *Michigan Student Data System (MSDS) Collection Details Manual Version 1.2*. Available from http://www.michigan.gov/documents/cepi/2014-15_MSDS_collection_details_454235_7.pdf).

Figure 2
2013-14 MVS Withdrawn, Failed, and Pass Rates by NCES Subject Area

NCES Subject Area	Attempted Count	Withdrawn	Completed/Failed	Completed/Passed (Pass Rate)
Agricultural, Food, and Natural Resources	5	0.0%	0.0%	100.0%
Business and Marketing	958	0.6%	10.0%	89.4%
Communications and Audio/Visual Technology	89	4.5%	13.5%	82.0%
Computer and Information Sciences	787	2.2%	22.4%	75.5%
Engineering and Technology	106	0.9%	8.5%	90.6%
English Language and Literature	1,653	6.3%	34.7%	59.0%
Fine and Performing Arts	967	1.0%	25.3%	73.6%
Foreign Language and Literature	4,522	2.3%	18.2%	79.5%
Health Care Sciences	496	1.8%	13.7%	84.5%
Life and Physical Sciences	2,473	2.5%	19.7%	77.8%
Mathematics	3,101	3.9%	23.5%	72.6%
Miscellaneous	1,258	4.1%	14.9%	81.0%
Physical, Health, and Safety Education	735	3.8%	18.6%	77.6%
Public, Protective, and Government Services	596	0.7%	10.1%	89.3%
Social Sciences and History	3,396	2.4%	16.1%	81.6%
Total	21,142	2.8%	19.6%	77.5%

Note: Percentages may not sum to 100% due to rounding.

[details_454235_7.pdf](#)). The NCES Subject Areas also correspond to the way courses are organized within Michigan’s Online Course Catalog (<https://micourses.org>), the website publicizing Section 21f online courses in the state.

With those understandings, *MVS* had a total of 21,253 enrollments in the 2013-14 school year. Of those, 111 enrollments were in courses where credit or a grade were not attempted. Of the 21,142 credit- or grade-attempted enrollments, 20,540 enrollments were from students who finished or remained in the course through the last day of the academic term for a completion rate of 97.2%. In terms of course success, 16,390 of the 21,142 enrollments earned 60% or more of the total course points for an overall Pass Rate of 77.5%. Figure 2 shows how the *MVS* Pass Rate varied by Subject Area. A full list of the 2013-14 *MVS* Pass Rates by course title can be found in Exhibit 3.

To put the *MVS* Pass Rate statistics into perspective, consider what rates were for all K-12 virtual courses in

the previous school year. Using the data from Table 8 of the *Effectiveness Report* (p. 8), 25,278 K-12 virtual enrollments fell into one of the three withdrawn categories, 23,644 had completion statuses of “Completed/Failed,” and 111,811 reach “Completed/Passed” status. That means of the 160,733 enrollments with completion statuses similar to *MVS*, 15.7% had a “withdrawn” status, 14.7% had a “Completed/Failed” status and 69.6% had a “Completed/Passed” status. For the purpose of this comparison, 8,756 “Audited,” 15,471 “Incompletes,” and 93 “Testing Out” enrollments were omitted from the calculations. Their inclusion would only lower the statewide Pass Rate.

Though this comparison data is from the prior year, it suggests the *MVS* pass rate was several percentage points higher than the state average for virtual courses. In fact, even if all 15,471 incomplete enrollments excluded from the above calculation eventually turned into “Completed/Passed,” the statewide average would only rise to 72.2%, five percentage points below the *MVS* Pass Rate.

Several factors impact the *MVS* Pass Rate. The reason a student enrolls in an *MVS* course is one worthy of highlighting. Figure 3 shows how the *MVS* Pass Rate varies by enrollment reason. When a student is enrolled in an *MVS* course, the person enrolling the student selects one of five enrollment reasons. Those reasons are: course unavailable at local school, scheduling conflict, learning preference of the student, credit recovery, or other. As Figure 3 makes apparent, student performance in *MVS* courses is considerably different among these five reasons. Students who enroll in *MVS* courses because of a scheduling conflict or because the course is unavailable locally had Pass Rates in 2013-14 of 86.4% and 84.3%, respectively. Conversely, students using *MVS* courses for credit recovery purposes were far less likely to pass, yielding only a 48.9% Pass Rate.

Another factor worth highlighting is variability by district. Consider, for instance, the *MVS* Pass Rate for English Language Arts of 59%. The Pass Rate does not indicate how much this rate can vary by district.

For instance, in 2013-14 one of the districts served by *MVS* had over 50 enrollments in English Language and Literature courses yet had a 12% Pass Rate in the Subject Area. On the other hand, a different district with more than 50 enrollments in English – including many of the same titles – had a Pass Rate of 98%. This district-level variability is similar to what was found statewide in the *Effectiveness Report*; some districts implemented high-performing online learning models and others did not. Figure 4 charts how districts’ *MVS* Pass Rates differed. Of the 378 Michigan districts that used *MVS* in 2013-14, 155 of them (41%) had overall *MVS* Pass Rates of 90% or greater. Another 82 districts (21.7%) achieved *MVS* Pass Rates of 80% to less than 90%. Hence, over 60% of Michigan districts using *MVS* experience Pass Rates of 80% or greater.

Implementation Resources

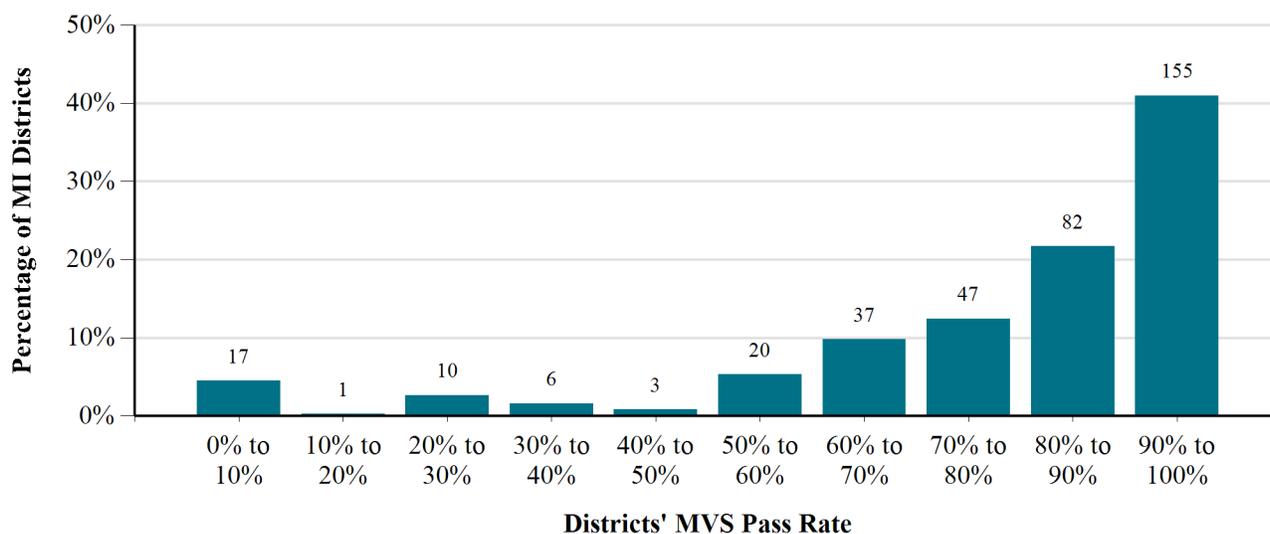
These data clearly suggest many schools continue to need help in implementing successful online learning programs for their students. Toward this end, *MVU*

Figure 3
2013-14 *MVS* Pass Rates by NCES Subject Area and Enrollment Reason

NCES Subject Area	Course Unavailable Locally	Scheduling Conflict	Learner Preference	Credit Recovery	Other
Agricultural, Food, and Natural Resources	100.0%	-	-	100.0%	100.0%
Business and Marketing	92.8%	86.7%	80.2%	42.9%	82.6%
Communications and Audio/Visual Technology	83.9%	87.5%	85.7%	66.7%	73.3%
Computer and Information Sciences	82.7%	86.4%	62.8%	60.0%	55.6%
Engineering and Technology	93.1%	100.0%	42.9%	-	100.0%
English Language and Literature	71.0%	87.3%	61.9%	35.9%	60.6%
Fine and Performing Arts	79.2%	76.4%	63.2%	50.0%	69.6%
Foreign Language and Literature	80.7%	86.4%	72.1%	41.7%	78.0%
Health Care Sciences	87.0%	91.7%	82.5%	83.3%	72.7%
Life and Physical Sciences	85.7%	86.7%	64.4%	52.3%	76.8%
Mathematics	84.5%	83.5%	61.6%	49.6%	77.5%
Miscellaneous	86.6%	69.2%	78.1%	81.1%	75.9%
Physical, Health, and Safety Education	76.7%	86.2%	72.9%	51.4%	76.2%
Public, Protective, and Government Services	92.1%	90.9%	77.8%	66.7%	84.6%
Social Sciences and History	87.6%	89.3%	77.4%	52.4%	81.1%
Total	84.3%	86.4%	69.2%	48.9%	75.3%

Note: Percentages may not sum to 100% due to rounding.

Figure 4
2013-14 Districts' MVS Pass Rate Distribution by Pass Rate Bins



has focused on developing practical resources to support school administrators, counselors, teachers and parents.

Section 21f Tool Kit. With the advent of Section 21f of the State School Aid Act, which allows students in grades 6-12 to be able to take two online courses from their local district catalog or the statewide catalog of online courses, *MVU*, with input from the Michigan Department of Education, the Michigan Association of Secondary School Principals, the Michigan Elementary and Middle School Principals Association, the Michigan Association of School Administrators, the Michigan Association of Intermediate School Administrators, the Michigan Association of School Boards, the Michigan Association for Computer Users in Learning, the Michigan Association for Supervision and Curriculum Development and Regional Educational Media Center representatives, created the Section 21f Tool Kit. The Tool Kit (available at https://micourses.org/resources/21f_Tool_Kit.html) provides comprehensive resources in a single site. From information about the legislation itself to FAQs about the law to a 20-page implementation guide, the Tool Kit contains critical information for both consumers and producers of online courses. In addition, the Tool Kit includes links to relevant sections of the Pupil Accounting Manual; draft letters for parents, school personnel, and school board members; sample school

board policy; and even sample surveys that can be used to gauge local interest in online learning.

Parent Guide. Two of the most popular resources in the Tool Kit include *MVU's Parent Guide to Online Learning* and *MVU's Mentor Fundamentals: A Guide for Mentoring Online Learners*. The *Parent Guide* is a 16-page publication prepared for parents, guardians, counselors, and others who want to help students decide whether online courses are a good option for them. The guide details what online learning is and introduces some of the benefits online learning offers. It also includes information on online learning opportunities in Michigan, characteristics of successful online learners, and how to prepare for learning online. The guide contains guiding questions and an online learner readiness rubric to help students self-evaluate their skills, knowledge, and dispositions for online learning. The rubric also helps schools, educators, parents and guardians understand what extra supports students might need during their online coursework. The *Parent Guide* is available for free at <http://media.mivu.org/institute/pdf/parentguide.pdf>.

Mentor Fundamentals: A companion resource available through the Section 21f Tool Kit website is *Mentor Fundamentals*. Like the *Parent Guide*, *Mentor Fundamentals* is full of practical, research and experience-based best practices for school

employees or parents who provide on-site support for online learners. Much of the content for *Mentor Fundamentals* was distilled from interviews with 14 experienced mentors from a range of school settings. These interviews yielded significant shared conceptions about mentor roles and responsibilities, proven practices that lead to increased student success, and common concerns about pacing and communication issues. The guide also includes a section that highlights the research conducted around mentoring online learners. *Mentor Fundamentals* fills an important void for schools as the professional development and assistance that many mentors receive has been lacking. *Mentor Fundamentals* is available for free at https://micourses.org/resources/pdf/toolkit/mentor_guide_14.pdf.

Mentor Network. *MVU*, through *MVLRI* and its Fellows program, is also finalizing an online mentor orientation and training module that combines research with best practices provided through the mentor interviews. *Mentor Fundamentals* and the mentor training module are just two of the resources *MVU* plans to include as it works to build a formal mentor network to connect, educate and support the important work building-level personnel are doing to help online learners in their schools maximize their online learning experiences. The mentor network is currently in the planning stages with an anticipated launch date for Spring 2015.

OLOT. A final resource to mention is *MVU*'s Online Learning Orientation Tool – OLOT. OLOT is a self-paced, web-based resource intended to help students understand what online learning entails and introduces students to the skills and knowledge that are key to success in online learning. OLOT covers areas such as Knowing What to Expect, Technical Skills You'll Need, Learning Skills You'll Need, and Managing

Day-to-Day. OLOT may be paired with the *MVU* Online Learner Readiness Rubric allowing mentors to direct students to OLOT modules and/or specific units within the modules based on the results of the student's strengths and weaknesses as identified by the rubric.

Even though OLOT may be used by students independently, often it will be more effective if students have someone they are accountable to for the results and someone – their mentor, parent, or guardian, for example – directing and supporting their efforts. OLOT has been released on a limited basis in preparation for a public launch in 2015.

Conclusion

Virtual enrollments in Michigan, including online enrollments, exceeded 185,000 in the 2012-13 school year, and preliminary analysis of the 2013-14 school year data suggest that the number of virtual enrollments is likely to exceed 300,000. The growth in online and blended learning in Michigan and across the nation appears to continue on the trajectory that has experts predicting that by 2019 over half of all enrollments will involve blended or online learning. Unfortunately, Michigan's virtual learning student performance data has shown suboptimal outcomes with some schools implementing high quality solutions, but too many virtual programs yielding underwhelming results. As students, parents, teachers, administrators, and policy leaders work to transition toward learning models that enable personalized learning for all students, *MVU* continues to catalyze and accelerate this reform through its online course offerings to middle and high school students; research, evaluation, and distillation of best practices; and professional development services.

Vision

Michigan's digital learning leader advancing personalized education for all learners.

Mission

Advancing K-12 education through digital learning, research, innovation, policy and partnerships.

Michigan Virtual University, a nonprofit corporation, is an equal opportunity employer committed to the principles of nondiscrimination.

Exhibit 1. 2013-14 Michigan Districts Served

Achieve Charter Academy
Addison Community Schools
Adrian City School District
Advanced Technology Acad.
Airport Community School Dist.
Akiva Hebrew Day School
Alanson Public Schools
Alba Public Schools
Alcona Community Schools
All Saints Central School
Allendale Public School District
Alma Public Schools
Almont Community Schools
Ann Arbor Public Schools
Arbor Preparatory High Sch.
Arenac Eastern School District
Armada Area Schools
Austin Catholic Academy
Bad Axe Public Schools
Baldwin Community Schools
Bark River-Harris School District
Bath Community Schools
Battle Creek Academy
Battle Creek Public Schools
Beal City Public Schools
Bear Lake School District
Beaver Island Comm. School-
Beaver Island
Belding Area School District
Bellaire Public Schools
Benzie County Central Schools
Berrien Springs Public Schools
Big Bay De Noc School District
Birmingham City School District
Blissfield Community Schools
Bloomfield Hills School District
Boyne City Public Schools
Brandywine Community Schools
Breckenridge Community Schools
Breitung Township Schools
Bridgeport-Spaulding Community
School District
Bridgman Public Schools
Brighton Area Schools
Brimley Area Schools
Bronson Community School Dist.
Brown City Community Schools
Buchanan Community Schools
Bullock Creek School District
Byron Area Schools
Byron Center Charter School
Byron Center Public Schools
Cadillac Area Public Schools
Caledonia Community Schools
Calvary Baptist Academy
Calvin Christian High School
Camden-Frontier Schools
Canton Charter Acad.
Carson City-Crystal Area
Schools
Caseville Public Schools
Cass City Public Schools
Cassopolis Public Schools
Cedar Springs Public Sch.
Central Montcalm Public
Schools
Charlotte Public Schools
Charlton Heston Acad.
Cheboygan Area Schools
Chesaning Union Schools
Chippewa Hills School District
Chippewa Valley Schools
City of Harper Woods Schools
Clarkston Community S.D.
Clintondale Community Schools
Coldwater Community Schools
Columbia School District
Comstock Public Schools
Concord Academy Boyne
Concord Community Schools
Constantine Public School District
Coopersville Area Public S.D.
Croswell-Lexington Comm. Sch.
Dansville Schools
Dearborn City School District
Decatur Public Schools
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Delton-Kellogg School District
DeTour Area Schools
DeTour Arts and Technology
Academy
Detroit City School District
DeWitt Public Schools
Dexter Community School Dist.
Divine Child High School
Dr. Joseph F. Pollack Academic
Center of Excellence
Dryden Community Schools
Durand Area Schools
Early College Alliance
East China School District
East Grand Rapids Public Schools
East Lansing School District
Eastern Washtenaw Multicultural
Academy
Eaton Academy
Eaton Rapids Public Schools
Education Achievement Authority
of Michigan
Edwardsburg Public Schools
Elk Rapids Schools
Ellsworth Community School-

SUPPLEMENTAL INFORMATION

Exhibit 1:

2013-14 Michigan Districts Served

Exhibit 2:

2013-14 Online Course Titles Offered by MVS to Michigan Schools

Exhibit 3:

2013-14 MVS Summary of Courses, Enrollments and Pass Rates

Ellsworth
Engadine Consolidated Schools
Escanaba Area Public Schools
Eton Academy
Ewart Public Schools
Everest Academy
Ewen-Trout Creek Consolidated
School District
Excel Charter Academy
Fairview Area School District
Faithway Christian School
Farmington Public School District
Fennville Public Schools
Ferndale Public Schools
FlexTech High School
Forest Hills Public Schools
Forest Park School District
Fowler Public Schools
Fowlerville Community Schools
Fr. Gabriel Richard H.S.
Frankel Jewish Academy
Frankenmuth School District
Frankfort-Elberta Area Schools
Freeland Community School Dist.
Fremont Public School District
Fulton Schools
Galesburg-Augusta Comm. Sch.
Gaylord Community Schools
Gladstone Area Schools
Gladwin Community Schools
Glen Lake Community Schools
Gobles Public School District
Godwin Heights Public Schools
Grand Haven Area Public Schools
Grand Ledge Public Schools
Grand Rapids Ellington Acad.
Grand Rapids Public Schools
Grand Traverse Academy
Grandville Public Schools
Grass Lake Community Schools
Great Oaks Academy
Greenville Public Schools
Grosse Ile Township Schools
Grosse Pointe Public Schools

Gull Lake Community Schools
Hamilton Community Schools
Hancock Public Schools
Harbor Beach Comm. Schools
Harbor Springs School District
Harper Creek Community Schools
Hartford Public School District
Hartland Consolidated Schools
Haslett Public Schools
Hastings Area School District
HEART Academy
Hemlock Public School District
Hesperia Community Schools
Holland Christian High School
Holland City School District
Holly Area School District
Holt Lutheran Schools
Holt Public Schools
Honey Creek Comm. School
Hopkins Public Schools
Houghton Lake Comm. Schools
Houghton-Portage Twp. Schools
Howell Public Schools
Huron School District
Huron Valley Schools
Ida Public School District
Imlay City Community Schools
Ionia Public Schools
Iron Mountain Public Schools
Ishpeming Public School District
Ithaca Public Schools
Jackson Public Schools
Kalamazoo Christian H.S.
Kalamazoo Public School District
Kaleva Norman Dickson S. D.
Kelloggsville Public Schools
Kenowa Hills Public Schools
Kensington Woods High School
Kent City Community Schools
Kingsley Area Schools
Kingston Community S.D.
L'Anse Creuse Public Schools
Ladywood High Sch. - Detroit
Lake Linden-Hubbell School Dist.
Lake Orion Community Schools
Lakeshore School Dist. (Berrien)
Lakeview Public Sch. (Macomb)
Lakeview Sch. District (Calhoun)
Lamphere Public Schools
Lansing Catholic Central H.S.
Lansing Christian School
Lansing Public School District
Lapeer Community Schools
Lawrence Public School District
Lawton Community School Dist.
Leland Public School District
Lenawee Christian School

Lenawee ISD
Livonia Public Schools
Ludington Area School District
Lumen Christi High School
Lutheran High School South
Mackinac Island Public Schools
Madison Public Sch. (Oakland)
Mancelona Public Schools
Manchester Community Schools
Manistee Area Schools
Manistee Catholic Cent. School
Manistique Area Schools
Manton Consolidated Schools
Maple Valley Schools
Marcellus Community Schools
Marian High School
Marlette Community Schools
Marquette Area Public Schools
Marshall Public Schools
Martin Public Schools
Mason County Eastern Schools
Mason Public Schools (Ingham)
Mattawan Consolidated School
Mayville Community School Dist.
Mendon Community School Dist.
Menominee Area Public Schools
Merrill Community Schools
Merritt Academy
Mich School f/t Deaf/Mich
School f/t Blind-LIO
Michigan Center School District
Michigan Islamic Academy
Midland Academy of Advanced
and Creative Studies
Midland Public Schools
Milan Area Schools
Millington Community Schools
Mio-AuSable Schools
Mona Shores Public School Dist.
Monroe Public Schools
Montabella Community Schools
Morrice Area Schools
Munising Public Schools
Nah Tah Wahsh PSA
Napoleon Community Schools
Negaunee Public Schools
New Life Christian Academy
Niles Community School District
North Adams-Jerome Schools
North Branch Area Schools
North Dickinson County Schools
North Huron School District
North Muskegon Public Schools
Northport Public School District
Northview Public School District
Northville Public Schools
Northwest Community Schools

Norway-Vulcan Area Schools
Notre Dame Prep. School
Novi Community School District
Oakland Christian School
Oakland FlexTech Academy
Oakland Schools
Olivet Community Schools
Onkama Consolidated Schools
Onsted Community Schools
Ontonagon Area Schools
Oscoda Area Schools
Otsego Public Schools
Ovid-Elsie Area Schools
Oxford Community Schools
Paramount Charter Academy
Parchment School District
Paw Paw Public School District
Peck Community School District
Pellston Public Schools
Pennfield Schools
Perry Public School District
Pickford Public Schools
Pinckney Community Schools
Pinconning Area Schools
Plainwell Community Schools
Plymouth Christian Academy
Plymouth Christian High School
Plymouth-Canton Comm. Schools
Portage Public Schools
Potterville Public Schools
Prevail Academy
Quincy Community School Dist.
Rapid River Public Schools
Reach Charter Academy
Reading Community Schools
Redford Union School District
Reed City Area Public Schools
Reeths-Puffer Schools
Regina High School
Republic-Michigamme Schools
Richmond Community Schools
Riverview Comm. School District
Rochester Comm. School District
Rockford Public Schools
Rogers City Area Schools
Romeo Community Schools
Sacred Heart Academy
Saginaw City School District
Saline Area Schools
Sandusky Comm. School District
Saranac Community Schools
Saugatuck Public Schools
Sault Ste. Marie Area Schools
School District of the City of
Royal Oak
Schoolcraft Community Schools
Shepherd Public School District

Shrine High School
South Arbor Charter Academy
South Christian High School
South Lyon Community Schools
Southgate Comm. School District
Sparta Area Schools
Spring Lake Public Schools
St. Charles Community Schools
St. Clair County RESA
St. Ignace Area Schools
St. Patrick's School
St. Thomas School
Standish-Sterling Comm. Schools
Stockbridge Community Schools
Sturgis Public Schools
Summerfield School District
Superior Central Schools
Suttons Bay Public Schools
Swan Valley School District
Swartz Creek Community Schools
Taylor Prep. High School
Tecumseh Public Schools
Thornapple Kellogg School Dist.
Three Rivers Community Schools
Traverse City Area Public Schools
Tri County Area Schools
Tri-Unity Christian High School
Trinity Lutheran School-Clinton
Township
Troy School District
Ubly Community Schools
Union City Community Schools
Unionville-Sebewaing Area S.D.
Unity Christian High School
Utica Community Schools
Van Buren Public Schools
Vanderbilt Area Schools
Vandercook Lake Public Schools
Veritas Christi Catholic H.S.
Vestaburg Community Schools
Vicksburg Community Schools
Walkerville Public Schools
Walled Lake Cons. Schools
Warren Woods Public Schools
Washtenaw Christian Acad.
Watersmeet Twp. School Dist.
Watervliet School District
Waverly Community Schools
Wayland Union Schools
Wayne-Westland Comm. S.D.
Webberville Community Schools
Wellspring Preparatory H.S.
West Branch-Rose City Area
Schools
West Iron County Public Schools
West Michigan Academy of Arts
and Academics

West Mich. Aviation Acad.
West Ottawa Public School Dist.
Western School District
White Cloud Public Schools
Whiteford Agricultural Schools
Whitehall District Schools
Williamston Community Schools
Wolverine Community Schools
Wyoming Public Schools
Zeeland Public Schools

Exhibit 2. 2013-14 Online Course Titles Offered by the MVS to Michigan Schools

Agriculture, Food, and Natural Resources

Veterinary Science

Business and Marketing

Accounting (A)
Accounting (B)
Business Ethics
Entrepreneur Bus. Management
Entrepreneur Business Planning
Sports and Entertainment

Communications and Audio/ Visual Technology

Journalism

Computer and Information Sciences

AP Computer Science A (A)
AP Computer Science A (B)
Flash Animation
Game Design
Java Programming
Microsoft Office 2007
Social Media
Visual Basic.Net Programming
Web Design Basics HTML

Engineering and Technology

Bioethics

English Language and Literature

AP English Lang. & Comp. (A)
AP English Lang. & Comp. (B)
AP English Lit. & Comp. (A)
AP English Lit. & Comp. (B)
Composition - Advanced
Composition - Beginning
English 6 (A)
English 6 (B)
English 7 (A)
English 7 (B)
English 8 (A)
English 8 (B)
English 9 (A)
English 9 (B)
English 10 (A)
English 10 (B)
English 11 (A)
English 11 (B)
English 12 (A)
English 12 (B)
Mythology and Folklore

English Language and Literature (Cont.)

Reading
World Literature

Fine and Performing Arts

American Film Survey
AP Art History (A)
AP Art History (B)
Art Appreciation
Digital Photography
Directors of the Golden Age
In Search of Cyrano
Music Appreciation

Foreign Language and Literature

American Sign Language 1 (A)
American Sign Language 1 (B)
American Sign Language 2 (A)
American Sign Language 2 (B)
AP French (A)
AP French (B)
AP Spanish (A)
AP Spanish (B)
Chinese 1 (A)
Chinese 1 (B)
Chinese 2 (A)
Chinese 2 (B)
Chinese 3 (A)
Chinese 3 (B)
Chinese 4 (A)
Chinese 4 (B)
French 1 (A) (6-8)
French 1 (A)
French 1 (B)
French 2 (A) (6-8)
French 2 (B) (6-8)
French 2 (A)
French 2 (B)
French 3 (A)
French 3 (B)
French 4 (A)
French 4 (B)
German 1 (A) (6-8)
German 1 (A)
German 1 (B)
German 2 (A) (6-8)
German 2 (B) (6-8)
German 2 (A)
German 2 (B)
German 3 (A)
German 3 (B)
German 4 (A)

Foreign Language and Literature (Cont.)

German 4 (B)
Japanese 1 (A)
Japanese 1 (B)
Japanese 2 (A)
Japanese 2 (B)
Latin 1 (A)
Latin 1 (B)
Latin 2 (A)
Latin 2 (B)
Latin 3 (A)
Latin 3 (B)
Spanish 1 (A) (6-8)
Spanish 1 (B) (6-8)
Spanish 1 (A)
Spanish 1 (B)
Spanish 2 (A) (6-8)
Spanish 2 (B) (6-8)
Spanish 2 (A)
Spanish 2 (B)
Spanish 3 (A)
Spanish 3 (B)
Spanish 4 (A)
Spanish 4 (B)

Health Care Sciences

Medical Terminology

Life and Physical Sciences

Anatomy & Physiology (A)
Anatomy & Physiology (B)
AP Biology (A)
AP Biology (B)
AP Chemistry (A)
AP Chemistry (B)
AP Environmental Science (A)
AP Environmental Science (B)
AP Physics B (A)
AP Physics B (B)
AP Physics C - Mechanics (A)
AP Physics C - Mechanics (B)
Astronomy
Biology (A)
Biology (B)
Chemistry (A)
Chemistry (B)
Earth Science (A)
Earth Science (B)
Environmental Science (A)
Environmental Science (B)
Great Minds in Science
Human Space Exploration
Oceanography (A)

Life and Physical Sciences (Cont.)

Oceanography (B)
Oceans & Their Ecosystems
Physical Science (A)
Physical Science (B)
Physics (A)
Physics (B)
Science 6 (A)
Science 6 (B)
Science 7 (A)
Science 7 (B)
Science 8 (A)
Science 8 (B)
Science Tracks

Mathematics

Algebra 1
Algebra 1 (A)
Algebra 1 (B)
Algebra 2 (A)
Algebra 2 (B)
AP Calculus AB (A)
AP Calculus AB (B)
AP Calculus BC (A)
AP Calculus BC (B)
AP Statistics (A)
AP Statistics (B)
Calculus (A)
Calculus (B)
Geometry (A)
Geometry (B)
Math Tracks
Mathematics 6 (A)
Mathematics 6 (B)
Mathematics 7 (A)
Mathematics 7 (B)
Mathematics 8 (A)
Mathematics 8 (B)
Mathematics of Baseball
Personal Finance (A)
Personal Finance (B)
Pre-Algebra (A)
Pre-Algebra (B)
Pre-Calculus (A)
Pre-Calculus (B)
Probability and Statistics (A)
Probability and Statistics (B)
Trigonometry

Miscellaneous

Career Planning
Careers - Find Your Future
Employability Skills
Leadership Skills Development
Leadership Skills Develop. (A)
Leadership Skills Develop. (B)
Study Skills

Physical, Health, and Safety Education

Health
Personal Fitness

Public, Protective, and Government Services

Forensic Science - Intro
Forensic Science - Advanced

Social Science and History

Anthropology (A)
AP Macroeconomics
AP Microeconomics
AP Psychology
AP U.S. Government & Politics
AP U.S. History (A)
AP U.S. History (B)
AP World History (A)
AP World History (B)
Archaeology
Civics
Criminology
Economics
History of the Holocaust
Native American History
Psychology
Sociology (A)
Sociology (B)
U.S. History (A)
U.S. History (B)
U.S. History 8 (A)
U.S. History 8 (B)
World Cultures 6 (A)
World Cultures 6 (B)
World Geography 7 (A)
World Geography 7 (B)
World History (A)
World History (B)

Exhibit 3. 2013-14 MVS Summary of Courses, Enrollments and Pass Rates

Agriculture, Food, and Natural Resources

Course Title	Count	Pass Rate
Veterinary Science	<10	100.0%

Business and Marketing

Course Title	Count	Pass Rate
Accounting (A)	97	86.6%
Accounting (B)	30	83.3%
Business Ethics	328	93.6%
Entrepreneur Business Management	343	90.7%
Entrepreneur Business Planning	155	81.9%
Sports and Entertainment	<10	40.0%

Communications and Audio/Visual Technology

Course Title	Count	Pass Rate
Journalism	89	82.0%

Computer and Information Sciences

Course Title	Count	Pass Rate
AP Computer Science A (A)	81	84.0%
AP Computer Science A (B)	58	84.5%
Flash Animation	49	77.6%
Game Design	226	58.4%
Java Programming	92	85.9%
Microsoft Office 2007	46	60.9%
Social Media	<10	100.0%
Visual Basic.Net Programming	107	86.9%
Web Design Basics HTML	124	83.1%

Engineering and Technology

Course Title	Count	Pass Rate
Bioethics	106	90.6%

English Language and Literature

Course Title	Count	Pass Rate
AP English Lang. & Comp. (A)	23	100.0%
AP English Lang. & Comp. (B)	26	96.2%
AP English Lit. & Comp. (A)	26	96.2%
AP English Lit. & Comp. (B)	24	100.0%
Composition - Advanced	21	76.2%
Composition - Beginning	60	78.3%
English 10 (A)	154	42.9%
English 10 (B)	135	57.0%
English 11 (A)	204	50.5%
English 11 (B)	148	67.6%
English 12 (A)	205	52.7%

English Language and Literature (Cont.)

Course Title	Count	Pass Rate
English 12 (B)	142	69.0%
English 6 (A)	<10	< 25%
English 6 (B)	<10	33.3%
English 7 (A)	10	50.0%
English 7 (B)	15	66.7%
English 8 (A)	18	55.6%
English 8 (B)	15	46.7%
English 9 (A)	160	41.9%
English 9 (B)	154	47.4%
Mythology and Folklore	<10	100.0%
Reading	37	83.8%
World Literature	67	82.1%

Fine and Performing Arts

Course Title	Count	Pass Rate
American Film Survey	233	83.7%
AP Art History (A)	15	86.7%
AP Art History (B)	<10	66.7%
Art Appreciation	171	69.6%
Digital Photography	177	70.6%
Directors of the Golden Age	58	86.2%
In Search of Cyrano	<10	83.3%
Music Appreciation	298	66.8%

Foreign Language and Literature

Course Title	Count	Pass Rate
American Sign Language 1 (A)	585	78.5%
American Sign Language 1 (B)	278	95.0%
American Sign Language 2 (A)	74	93.2%
American Sign Language 2 (B)	44	97.7%
AP French (A)	14	78.6%
AP French (B)	12	83.3%
AP Spanish (A)	41	80.5%
AP Spanish (B)	27	88.9%
Chinese 1 (A)	63	68.3%
Chinese 1 (B)	44	86.4%
Chinese 2 (A)	48	83.3%
Chinese 2 (B)	40	92.5%
Chinese 3 (A)	21	66.7%
Chinese 3 (B)	20	80.0%
Chinese 4 (A)	16	87.5%
Chinese 4 (B)	10	100.0%
French 1 (A) (6-8)	14	42.9%
French 1 (A)	206	77.7%

Foreign Language and Literature (Cont.)

Course Title	Count	Pass Rate
French 1 (B)	125	81.6%
French 2 (A) (6-8)	51	92.2%
French 2 (B) (6-8)	47	100.0%
French 2 (A)	96	80.2%
French 2 (B)	88	87.5%
French 3 (A)	47	78.7%
French 3 (B)	26	88.5%
French 4 (A)	31	83.9%
French 4 (B)	26	88.5%
German 1 (A) (6-8)	<10	33.3%
German 1 (A)	245	80.8%
German 1 (B)	146	84.9%
German 2 (A) (6-8)	<10	100.0%
German 2 (B) (6-8)	<10	< 25%
German 2 (A)	96	81.3%
German 2 (B)	81	86.4%
German 3 (A)	36	91.7%
German 3 (B)	23	91.3%
German 4 (A)	8	87.5%
German 4 (B)	<10	80.0%
Japanese 1 (A)	161	65.2%
Japanese 1 (B)	86	82.6%
Japanese 2 (A)	45	88.9%
Japanese 2 (B)	32	96.9%
Latin 1 (A)	110	86.4%
Latin 1 (B)	55	98.2%
Latin 2 (A)	79	88.6%
Latin 2 (B)	65	95.4%
Latin 3 (A)	14	78.6%
Latin 3 (B)	<10	100.0%
Spanish 1 (A) (6-8)	16	50.0%
Spanish 1 (B) (6-8)	<10	40.0%
Spanish 1 (A)	383	54.8%
Spanish 1 (B)	250	62.4%
Spanish 2 (A) (6-8)	<10	75.0%
Spanish 2 (B) (6-8)	<10	100.0%
Spanish 2 (A)	181	76.8%
Spanish 2 (B)	144	83.3%
Spanish 3 (A)	58	82.8%
Spanish 3 (B)	27	85.2%
Spanish 4 (A)	32	84.4%
Spanish 4 (B)	24	83.3%

Health Care Services

Course Title	Count	Pass Rate
Medical Terminology	496	84.5%

Life and Physical Sciences

Course Title	Count	Pass Rate
Anatomy & Physiology (A)	184	85.9%
Anatomy & Physiology (B)	88	96.6%
AP Biology (A)	50	84.0%
AP Biology (B)	38	92.1%
AP Chemistry (A)	35	62.9%
AP Chemistry (B)	21	90.5%
AP Environmental Science (A)	32	93.8%
AP Environmental Science (B)	28	92.9%
AP Physics B (A)	55	87.3%
AP Physics B (B)	70	84.3%
AP Physics C - Mechanics (A)	44	97.7%
AP Physics C - Mechanics (B)	35	82.9%
Astronomy	251	84.9%
Biology (A)	125	68.0%
Biology (B)	120	77.5%
Chemistry (A)	141	55.3%
Chemistry (B)	131	70.2%
Earth Science (A)	105	52.4%
Earth Science (B)	57	61.4%
Environmental Science (A)	66	63.6%
Environmental Science (B)	20	85.0%
Great Minds in Science	<10	60.0%
Human Space Exploration	57	78.9%
Oceanography (A)	233	87.6%
Oceanography (B)	53	96.2%
Oceans & Their Ecosystems	121	81.8%
Physical Science (A)	45	60.0%
Physical Science (B)	35	65.7%
Physics (A)	104	71.2%
Physics (B)	66	90.9%
Science 6 (A)	<10	< 25%
Science 6 (B)	<10	66.7%
Science 7 (A)	<10	33.3%
Science 7 (B)	12	75.0%
Science 8 (A)	18	55.6%
Science 8 (B)	13	53.8%
Science Tracks	<10	NA

Mathematics

Course Title	Count	Pass Rate
Algebra 1	13	NA
Algebra 1 (A)	237	48.9%
Algebra 1 (B)	226	69.0%
Algebra 2 (A)	229	51.1%
Algebra 2 (B)	197	58.4%
AP Calculus AB (A)	33	93.9%
AP Calculus AB (B)	31	93.5%
AP Calculus BC (A)	50	98.0%
AP Calculus BC (B)	35	88.6%
AP Statistics (A)	72	87.5%
AP Statistics (B)	53	92.5%
Calculus (A)	25	80.0%
Calculus (B)	14	85.7%
Geometry (A)	230	55.7%
Geometry (B)	216	67.6%
Math Tracks	<10	NA
Mathematics 6 (A)	<10	57.1%
Mathematics 6 (B)	<10	66.7%
Mathematics 7 (A)	11	36.4%
Mathematics 7 (B)	14	71.4%
Mathematics 8 (A)	14	64.3%
Mathematics 8 (B)	12	50.0%
Mathematics of Baseball	192	83.9%
Personal Finance (A)	417	78.2%
Personal Finance (B)	309	88.0%
Pre-Algebra (A)	48	77.1%
Pre-Algebra (B)	39	69.2%
Pre-Calculus (A)	129	85.3%
Pre-Calculus (B)	91	86.8%
Probability and Statistics (A)	110	88.2%
Probability and Statistics (B)	21	66.7%
Trigonometry	36	88.9%

Miscellaneous

Course Title	Count	Pass Rate
Career Planning	283	88.3%
Careers - Find Your Future	155	75.5%
Employability Skills	312	84.6%
Leadership Skills Development	44	75.0%
Leadership Skills Development (A)	12	50.0%
Leadership Skills Development (B)	<10	50.0%
Study Skills	450	77.3%

Physical, Health, and Safety Education

Course Title	Count	Pass Rate
Health	519	77.6%
Personal Fitness	301	77.4%

Public, Protective, and Government Services

Course Title	Count	Pass Rate
Forensic Science - Introduction	507	87.8%
Forensic Science - Advanced	89	97.8%

Social Sciences and History

Course Title	Count	Pass Rate
Anthropology (A)	<10	100.0%
AP Macroeconomics	104	92.3%
AP Microeconomics	115	93.9%
AP Psychology	300	86.7%
AP U.S. Government & Politics	123	80.5%
AP U.S. History (A)	34	82.4%
AP U.S. History (B)	26	96.2%
AP World History (A)	15	80.0%
AP World History (B)	10	80.0%
Archaeology	<10	50.0%
Civics	476	81.7%
Criminology	<10	100.0%
Economics	403	79.9%
History of the Holocaust	<10	100.0%
Native American History	137	86.1%
Psychology	407	89.4%
Sociology (A)	274	89.8%
Sociology (B)	48	77.1%
U.S. History (A)	199	63.8%
U.S. History (B)	169	75.7%
U.S. History 8 (A)	16	68.8%
U.S. History 8 (B)	14	42.9%
World Cultures 6 (A)	<10	< 25%
World Cultures 6 (B)	<10	50.0%
World Geography 7 (A)	13	46.2%
World Geography 7 (B)	<10	100.0%
World History (A)	256	69.5%
World History (B)	235	79.1%

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V I R T U A L
U N I V E R S I T Y

