
A REPORT TO THE LEGISLATURE

Prepared by Michigan Virtual University®

December 1, 2013



MICHIGAN
VIRTUAL
UNIVERSITY



MVU BOARD OF DIRECTORS

Chair

John Butler
Senior Vice President
Human Resources and
Shared Services
Consumers Energy

Vice Chair

Gretchen Dziadosz
Executive Director
Michigan Education Association

Secretary/Treasurer

Darrell Burks
Previous Partner
PricewaterhouseCoopers

Audit Committee Chair

Robert L. Filka
CEO
Michigan Association of
Home Builders

President & CEO, MVU

Jamey Fitzpatrick

Brian Broderick
Executive Director
Michigan Association
of Non-Public Schools

Prentiss M. Brown, J.D.
Attorney
Prentiss M. Brown, P.C.

Michael P. Flanagan
Superintendent of
Public Instruction
Michigan Department
of Education

Rick Inatome
CEO, InfiLaw, Inc.
Chairman & Principal
Shareholder,
Motorquest
Automotive Group

Daniel F. Kiblawi
President & CEO
Egelhof Controls
Corporation

Dr. John L. King
Professor
School of Information
University of Michigan

James Lorenson
President
Gogebic Community
College

Neil Marchuk
Executive Vice President
Human Resources
TRW Automotive

Dr. Barbara Markle
Assistant Dean of
K-12 Outreach
College of Education
Michigan State
University

Kevin Oxley
Superintendent
Jackson Intermediate
School District

Dr. Rossi Ray-Taylor
President & CEO
Ray.Taylor and
Associates, LLC

Wendy Zdeb-Roper
Executive Director
Michigan Association
of Secondary School
Principals

A REPORT TO THE LEGISLATURE

Prepared by Michigan Virtual University

December 1, 2013

This report is submitted in compliance with Section 98 (7) of Public Act 201 of 2012, 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, specific information related to the *Michigan Virtual School*® (*MVS*®) for the preceding state 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 15 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. The *MVS* was created by Public Act 230 of 2000 to serve both traditional and nontraditional students and since its inception has recorded over 138,000 course registrations.

During the 2012-13 academic year, the *MVS* had 20,928 course registrations. The *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 1,800 online courses, videos, podcasts 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 nearly 20,000 middle and high school students during 2012-13.

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

In 2011, the *MVS* was awarded a five-year accreditation renewal by AdvancED®. This comprehensive evaluation process recognizes the *MVS*'s commitment to providing high quality online instructional services. As part of this continued quality improvement process, the *MVS* submitted an annual update for the 2012-13 academic year to AdvancED documenting its improvement efforts.

The *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

Since beginning its work in 1998, *MVU* has played three key roles to support and accelerate the growth and development of online learning in Michigan's K-12 schools. Figure 1 highlights these distinct, but complementary efforts.

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 students, parents and educators.

As school leaders developed an appreciation for the value and potential of online instruction, *MVU* 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.

In 2012, the Governor and Michigan Legislature asked the *MVU* to establish a center for online learning research and innovation, and through this center, directed *MVU* to work on a variety of projects. The center, now formally known as the *Michigan Virtual Learning Research Institute*TM, is a natural extension of the work of *MVU*. The core strategies of the *Institute* include:

- Research – Expand the K-12 online and blended learning knowledge base through high quality, high-impact research;
- Policy – Inform local, state and national public

Figure 1
Key Roles for Michigan Virtual University



education policy strategies that reinforce and support online and blended learning opportunities for the K-12 community;

- Innovation – Experiment with new technologies and online learning models to foster expanded learning opportunities for K-12 students; and
- Networks – Develop human and web-based applications and infrastructures for sharing information and implementing K-12 online and blended learning best practices.

MVU dedicates staff members to *Institute* projects as well as augments its capacity through a Fellows program drawing from state and national experts in K-12 online learning from K-12 schooling, higher education and private industry. These experts work alongside *MVU* staff to provide research, evaluation, and development expertise and support. To access the annual report that describes the work of the *Institute* in its first year of operation please visit http://media.mivu.org/institute/pdf/Annual_Report_2013.pdf.

Scope of the Report

The information provided in this report addresses the requirements that are listed in Section 98 (7) of P.A. 201 of 2012. These items include, for the period October 1, 2012 - September 30, 2013, the schools served by the *MVS*, online course titles available to Michigan schools, course enrollment, registration and completion rates by course, the overall completion rate percentage,

and an analysis of the results of a pilot study, and the identification of unmet needs that could be addressed by the *MVS*. The report also provides information on the results of a pay for performance pilot based on 1,002 online course enrollments.

Michigan Schools Served by the *MVS*

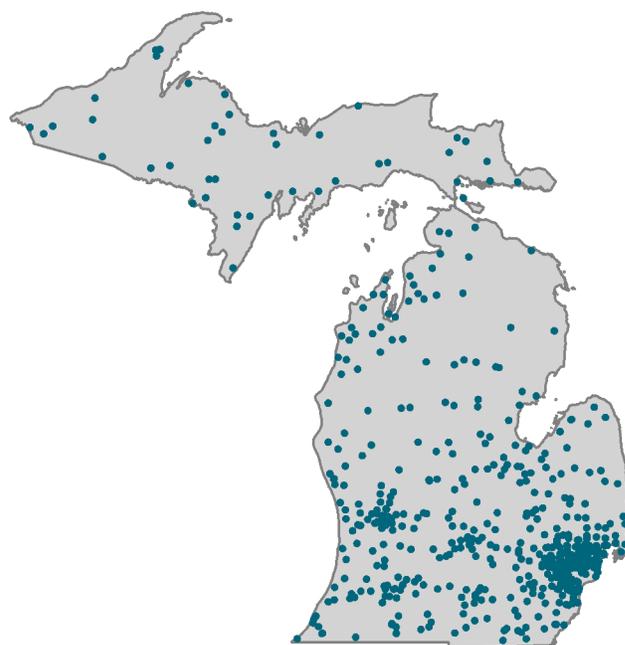
From October 1, 2012 - September 30, 2013, the *MVS* served students enrolled in 461 Michigan local education agencies (LEAs), public school academies (PSAs), intermediate school districts (ISDs) and nonpublic schools, including schools that have been identified by the MDE as not meeting adequate yearly progress (AYP). A complete list of the Michigan schools served during 2012-13 is included in Exhibit 1. These schools accounted for 17,744 *MVS* course registrations over the past year. In addition, the *MVS* had 3,072 student registrations from 1,766 Michigan home schools during 2012-13. School enrollments in *MVS* courses over the past year ranged from a single student enrollment to 748 student enrollments. The average number of enrollments per school during 2012-13 was 38.

Figure 2 provides a geographic representation of *MVS* course registrations for the public, nonpublic and home schools that enrolled students during 2012-13. During this period, schools and families in 78 of the state's 83 counties were supported with *MVS* online courses and programs.

Online Courses Available to Michigan Schools from the *MVS*

Exhibit 2 provides a listing of the online courses offered by the *MVS* to Michigan schools and parents during the period October 1, 2012 - September 30, 2013. These online courses are listed by the course titles that were included in the *MVS* course catalog for the corresponding fall, spring and summer semesters, as well as three trimesters during the fall and spring. These titles include courses in the content areas of English language arts, mathematics, science, social studies, world languages and other special interest or elective courses such as computer science, career planning and entrepreneurship courses. The list includes 246 possible courses, representing core academic courses specifically aligned with the Michigan Merit Curriculum

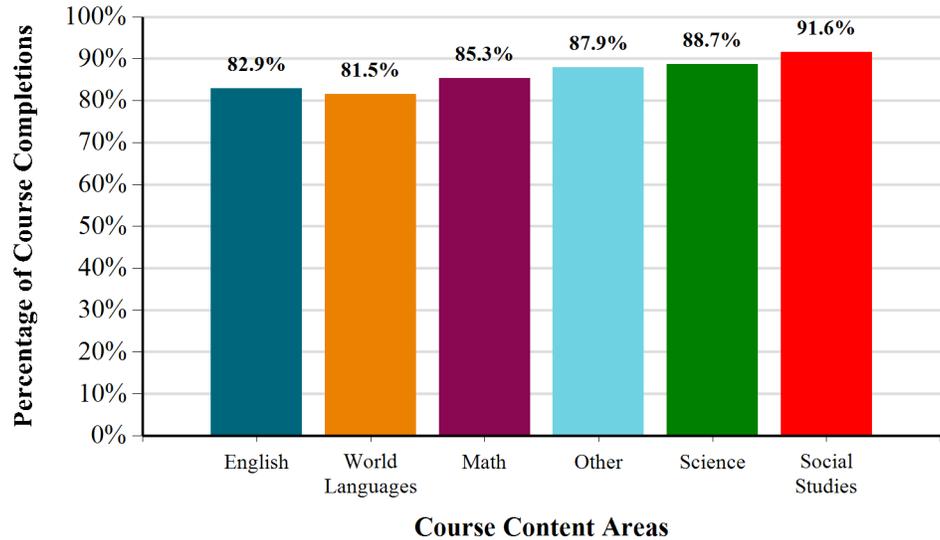
Figure 2
Michigan Enrollments in the *Michigan Virtual School* by City and Zip Code During the 2012-13 School Year



(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 the *MVS* courses (75%) are offered at the high school level, but approximately 61 online courses are available for middle school students in grades 6-8.

The adoption of the MMC in 2006 prompted the *MVS* to initiate an intensive multi-year course review and revision process to ensure that the online courses support the new curriculum requirements and the corresponding high school content expectations (HSCEs). The *MVS* focused this course review and revision effort in the areas of mathematics, science, English language arts and social studies to assist schools in complying with the state's graduation requirements and to help meet the demand for courses and highly qualified instructors in curriculum content areas where teacher shortages have been predicted. These and other *MVS* online courses are under constant review to improve their instructional design and student success rates. The courses offered through the *MVS* are designed to assist Michigan students in meeting the state's innovative online learning graduation requirement.

Figure 3
2012-13 MVS Average
Course Completion Rate by
Content Area



MVS Online Course Enrollments, Registrations and Completions by Course

The overall average completion rate for the *MVS* courses offered in the fall 2012, spring 2013 and summer 2013 semesters was 86.4%. This includes 16,434 Michigan student enrollments in semester-length, instructor-led *MVS* courses and excludes students enrolled in *MVS* summer enrichment, ungraded pilot programs and non-instructor-led courses. The *MVS* course completion rate is calculated by dividing the number of enrollments that earned 60% or more of the final points by the number of enrollments that earned 10% or more

of the final points. It is common practice in online learning to drop non-attempted enrollments – enrollments with less than 10% of the possible points – to correct for students who didn’t login or who had little to no significant activity in their courses.

It is worth noting that the *MVS* completion rate has grown from 80.9% to 86.4% since the 2008-09 school year. This increase in student performance occurred at the same time as the number of enrollments included in the completion rate has increased over 4,200 enrollments compared to the 2008-09 school year.

Figure 4
Frequency of 2012-13 MVS Students’ Final Scores
(Excludes Non-Attempted Enrollments)

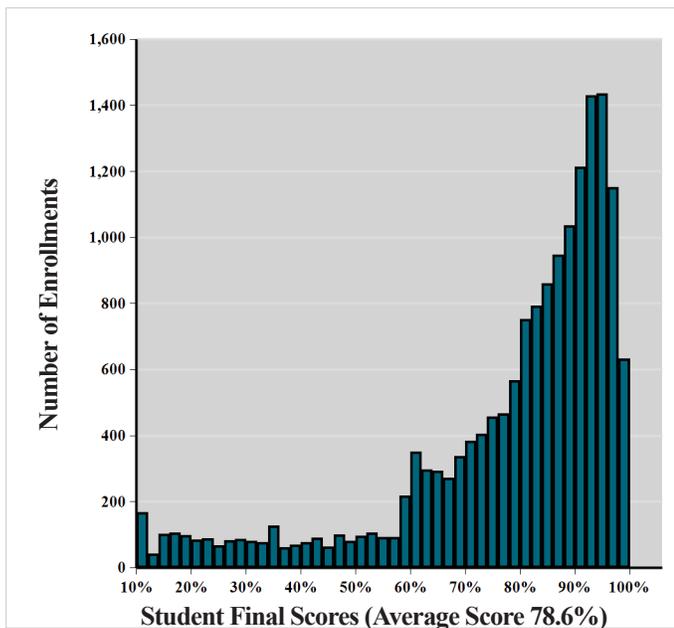


Figure 3 provides a summary of the *MVS* course completion rates by curriculum content area. Course completion rates ranged from over 80% in English language arts and world languages, to over 85% in mathematics, science, social studies and other elective courses. As previously noted, the category titled “Other” includes elective courses such as Basic Software Applications, Career Planning, Digital Photography, Entrepreneur Business Management, and Music Appreciation. The 2012-13 *MVS* course completion rates by individual course title can be found in Exhibit 3.

Figure 4 represents the frequency of students’ final scores for the 16,434 course enrollments used to calculate the completion rate for the 2012-13 academic year. During this timeframe, there were fall, spring and summer semesters, as well as three trimesters offered in the fall and spring. The histogram takes into account any student enrollment

Figure 5
Top Ten MVS Core Content Area Courses
by Enrollments

Course Title	Enrollment Totals	Comp Rate
Forensic Science - Intro	432	92.8%
American Sign Lang. 1(A)	389	87.1%
Psychology	377	92.8%
Health	324	88.0%
Spanish 1 (A)	313	70.9%
Economics	308	93.5%
Civics	291	89.0%
Spanish 1 (B)	268	75.7%
AP Psychology	268	94.4%
French 1 (A)	263	76.8%
	Total 3,233	Overall Rate 86.7%

earning a minimum of 10% of the possible points from the 206 instructor-led courses selected by schools and students from the *MVS* course catalog during this period.

The *MVS* provides ongoing assistance to the local school mentors, counselors and administrators responsible for enrolling and supporting students in *MVS* courses. *MVS* course completion rates are increasing as a result of improved monitoring, additional student support services, and steps taken to streamline the process for formally dropping students from courses that they do not intend to complete or actively participate in. This process is an ongoing challenge because some students start slowly in their online courses and gain confidence in this new learning environment as the semester continues. Schools have made significant strides in developing the local capacity to support and encourage online learners and the *MVS* works with school personnel across the state to minimize the number of incomplete enrollments.

Figure 5 highlights the 10 *MVS* instructor-led core content area courses with the highest enrollments and their corresponding completion rates recorded during 2012-13. Enrollments in these courses represent approximately 20% of all *MVS* course enrollments included in the completion rate calculations.

The *MVS* also offered 29 instructor-led courses during 2012-13 with five or fewer enrollments recorded, including semester or trimester sections of middle school mathematics, English language arts, science and world languages, and upper-level Latin language courses. Michigan school administrators have consistently noted that the availability of a robust catalog of online courses is especially useful to them as many schools have been forced to eliminate low enrollment course options for students due to increasing instructional costs.

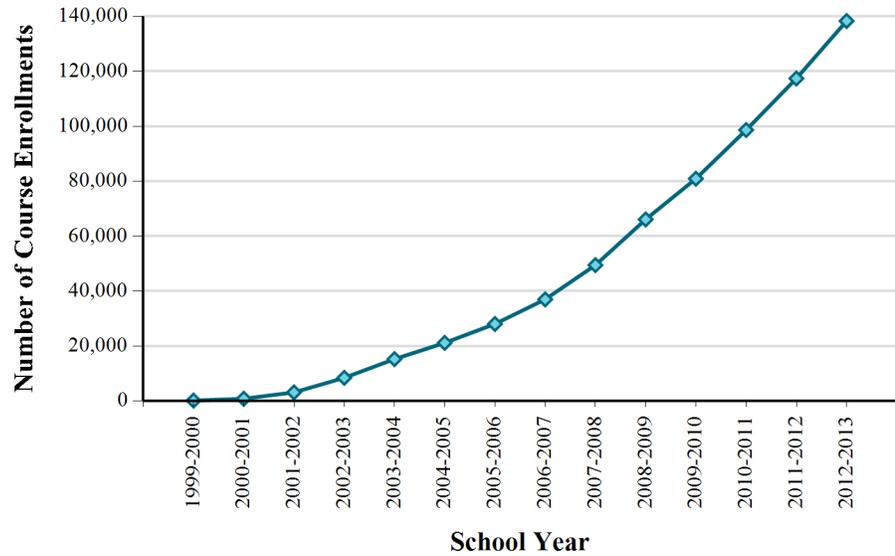
Each year the *MVS* serves a large number of students in credit recovery courses, as well as AP courses, advanced math or science courses or world language

courses that typically are not available through their local school. In meeting these unique needs, the *MVS* tends to serve students on both ends of the achievement spectrum. During the 2012-13 academic year, the *MVS* had enrollments in 34 instructor-led AP courses and recorded 1,452 enrollments with a completion rate of 92.5%. The number of AP enrollments represents about 9% of all course enrollments included in the completion rate during the reporting period.

Many schools in Michigan do not allow students to enroll in online courses if the same course is offered face-to-face locally. The exception to this trend tends to be for courses that students have failed in the traditional face-to-face environment. These and other factors such as scheduling conflicts contribute to the course selection, completion, and achievement across *MVS* courses.

Another element contributing to student success is the essential support role of local mentors who are responsible for assisting students as they access their online courses from a school setting. The *MVS* continues to offer its free mentor training to schools as they build capacity to support online learners in their communities.

Figure 6
Cumulative Frequency of MVS
Course Registrations Since
1999-2000



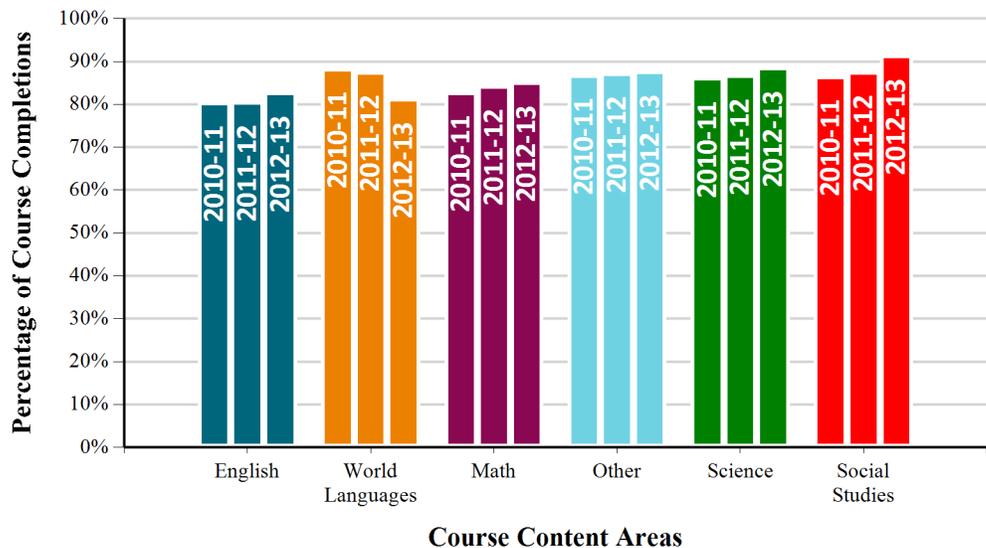
MVS Course Enrollments and Completion Rates Over Time

The growth of online learning continues to expand teaching and learning opportunities for Michigan’s middle and high school students. The *MVU* has a strong record of working in partnership with the state’s K-12 community to help schools and parents meet a variety of instructional needs for their students. In addition, the organization has developed the technical infrastructure and capacity to deliver high quality online courses and instructional materials through a cadre of highly qualified Michigan-certified instructors. A review of *MVS* course registrations and completion rates over multiple years provides evidence of this ongoing effort. As Figure 6 demonstrates, *MVS* course registrations have grown consistently and at an accelerating pace over

the past 14 years. During the 2012-13 academic year, the *MVS* surpassed 138,000 total course enrollments since its inception, marking a significant milestone in the history of the organization.

In addition to experiencing consistent growth in course enrollments, *MVS* has also demonstrated steady improvement in student performance in its online courses. As depicted in Figure 7, over the past three years the *MVS* has tended to increase or maintain its course completion rates within each of its six content areas. Developing strategies and outreach efforts to support improvements in the course completion rates by students is an ongoing strategic goal of *MVU*.

Figure 7
MVS Course Completion
Rates from 2010-11
to 2012-13



Areas of Unmet Educational Needs Related to Online Learning

In 2013, the Michigan Legislature added language to the State School Aid Act under Section 21f that provided unprecedented choice at the course level for students and parents wanting online learning options. This legislation allows public school students in grades 5-12 to take up to two online courses listed in a district's local catalog or from those listed in *Michigan's Online Course Catalog* (<http://micourses.org>). In order to successfully implement the intentions of this legislation, the following areas should receive priority.

1. Raise Awareness of the Legislative Changes

Educating school personnel, parents and students about what 21f means will be critical in effectively implementing it. Despite its passage in June of 2013, many school personnel, parents and students remain unaware of the new legislation, and those who are aware have many questions about it. Organizations like the Michigan Association for Secondary School Principals (MASSP), the Michigan Department of Education (MDE) and *MVU* have been working to spread the word and to create resources for those affected by 21f. Such efforts to provide high-quality and timely information – especially during the early implementation stage – will be important to reduce confusion and increase fidelity to the goals of the legislation.

2. Assist Students, Parents and Schools in Choosing High-Quality Online Options

As Michigan moves toward a public school system that provides greater choice, students, schools and parents will need help in identifying options that will be most effective in educating their students and children. School personnel will need training to help them evaluate and develop online learning options, familiarize themselves with the available options, and provide recommendations that best fit the student. Likewise, parents will need to become informed consumers and more involved with advocating for their children. Resources like the *MVU Parent Guide to Online Learning* (http://media.mivu.org/institute/pdf/parent_guide_2013.pdf) should be helpful in providing direction toward those goals. Ultimately,

coordination and cooperation between parents and schools will be required to best leverage 21f in ways that maximize student learning.

3. Effectively Train Michigan Teachers to Teach and Mentor in Online Environments

In order for an online course to qualify under 21f, it must be taught by a Michigan certificated teacher. While this is an important step toward regulating quality, additional steps are necessary. Research demonstrates that effective online instructors must possess distinctly different knowledge, skills, and dispositions from that of face-to-face teachers. Online teachers fulfill many of the same roles as face-to-face teachers, but in addition, they must also fill roles unique to online teachers such as instructional designer and tech coordinator. Furthermore, online teachers must provide instruction, monitor student learning through formative and summative assessments, and support student learning all while separated both physically and temporally from their students. This poses unique contextual challenges not present in face-to-face classrooms. Unfortunately, few initial teacher preparation programs provide students with the curricular or student teaching experiences necessary to develop these proficiencies. Creating scalable professional development programs that train teachers to teach online in the K-12 environment will be important to improving the quality of online learning experiences for Michigan students.

Learning to teach online is not the only area where teachers and schools will need professional development. Research and experience demonstrate the importance of high-quality onsite mentors to monitor and support K-12 online students. Schools will need training in best practices for shaping their online learning mentor programs. Likewise, Michigan certificated educators will need opportunities to learn how best to monitor student progress and to develop strategies for successfully supporting and intervening to maximize student performance.

2012-13 Pilot Study

Pursuant to Section 98 (3) of Public Act 201 of 2012, *MVS* conducted and reported on a year-long pilot study of a new performance-based model of funding. The purpose of the pilot was to determine the merits of a payment system for online instructional programs based on pupil performance rather than solely on enrollment and attendance factors. In this pilot, 1,002 enrollments were randomly selected from 224 Michigan schools and among 149 course titles. Enrollments in the pilot yielded an 86% completion rate. The result of the pilot show that *MVS* could maintain a high completion rate while being funded through a performance-based model wherein successful completions (enrollments earning 60% or more of the total course points) were reimbursed by the state at 1/12 of the minimum per pupil foundation allowance and no payment (either upon enrollment or completion) was received for unsuccessful completions.

A full report on the pilot study is available online at http://media.mivu.org/mivhs/pdf/Pilot_Study_2013.pdf. This report includes information, such as:

- a list of the districts that were selected to be a part of the pilot;
- the number of successful online course completions;
- a list of the courses offered in the pilot study and the completion rates for each course;
- identification of opportunities; and
- barriers that must be addressed in order to apply online learning performance funding based on successful completions rather than enrollment and attendance for online learning offerings statewide.

Conclusion

Online learning continues to grow at a rapid pace and holds great promise as an instructional strategy to expand and personalize learning opportunities for students. Based on policy recommendations from Governor Snyder, the Michigan Legislature took action in 2013 to further expand student access to digital learning options for students. Beginning in January 2014, students enrolled in a public local district or public school academy in grades 5-12 are eligible to enroll in an online course. The new policies build on more than a decade of legislation and policy development in Michigan, including:

- 2000: *Michigan Virtual School* (P.A. 230 of 2000)
- 2004: Support for online professional development (P.A. 351 of 2004)
- 2006: Online learning experience (P.A. 123 & 124 of 2006)
- 2008: Seat Time Waivers (MDE waiver)
- 2009: Two full-time cyber schools. (P.A. 205 of 2009)
- 2012: Lift cap on cyber schools (P.A. 129 of 2012)
- 2012: Expand authorizers of cyber schools (P.A. 129 of 2012)
- 2012: *Michigan Virtual Learning Research Institute* (P.A. 201 of 2013).
- 2013: Choice at the course level (PA 60 of 2013)

The transition of learning environments from traditional classroom models to any time, any place, any pace learning systems will require the transformation of both individual and organizational behavior. *MVU* stands ready and looks forward to working with the state's policy leaders and elected officials to further develop Michigan's online learning industry and to help position the state to assume a national leadership role in the knowledge economy.

Vision

To provide leadership by expanding, improving and innovating learning opportunities for K-12 students and educators.

Mission

To serve as a catalyst for change by providing quality Internet-based programs that strengthen teaching and learning for K-12 education.

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

Exhibit 1 2012-13 Michigan Schools Served

A.D. Johnston Jr/Sr High School
Academy of Sacred Heart
Achieve Charter Academy
Addison Jr/Sr High School
Adlai Stevenson High School
Adrian High School
Advanced Technology Academy
AGBU Alex-Marie Manoogian School
Akiva Hebrew Day School
Akron-Fairgrove Jr/Sr High School
Alanson Public School
Alba School
Alcona Community High School
Algonac High School-St Clair RESA
All Saints Central School
Allendale High School
Alma Senior High School
Almont High School
Alternative Education-Legacy
Anchor Bay High School
Arbor Preparatory High School
Arenac Eastern Middle/High School
Armada High School
Asher Adult Education
Athens High School-Troy
Austin Catholic Academy
Baldwin Senior High School
Bark River-Harris Jr/Sr High School
Bath High School
Battle Creek Academy
Bear Lake High School
Belding High School
Bellaire Middle/High School
Benzie Central Sr. High School
Berkley High School
Berrien Springs Virtual Academy
Bert Goens Learning Center
Big Bay De Noc School
Black River Public School
Blissfield High School
Bloomfield Hills Andover H.S.
Bloomfield Hills Lahser H.S.
Bradford Academy
Breckenridge High School
Brethren High School
Bridgman High School
Brighton High School
Brighton Virtual Academy
Brimley Jr./Sr. High
Bronson Jr/Sr High School
Buchanan High School
Buckley Community Schools
Bullock Creek High School
Burt Township School
Byron Center Charter School
Byron Center High School
Caledonia High School
Calumet High School
Calvary Baptist Academy
Calvin Christian High School
Canton Charter Academy
Carney-Nadeau School
Carson City-Crystal High School
Caseville High School
Cass City High School
Cass Technical High School
Cedar Springs High School
Cedarville High School
Central High School-Forest Hills
Central High School-Traverse City
Central Lake Public School
Central Middle School-Ada
Centreville High School
Charlotte Senior High School
Charlton Heston Academy
Charyl Stockwell Academy - High School
Cheboygan Area High School
Chesaning Union High School
Chippewa Hills High School
Chippewa Valley - WIA
City Middle/High School
Clare High School
Clarkston High School
Clintondale High School
Coldwater High School
Community High School-Ann Arbor
Compass Pointe
Concord Academy:Boyne
Concord High School
Constantine High School
Coopersville High School
Covered Bridge School
Covert High School
Crosswell-Lexington High School
Dansville High School
Davis Junior High School
Dearborn High School
Decatur High School
DeLaSalle Collegiate High School
DeTour Arts and Technology Academy
DeTour High School
Detroit Catholic Central High School
DeWitt High School
Dexter High School
Divine Child High School
Dr. Joseph F. Pollack Academic Center of Excellence
Dream Academy

SUPPLEMENTAL INFORMATION

Exhibit 1:

2012-13 Michigan Schools Served

Exhibit 2:

2012-13 Online Course Titles Offered by the MVS to Michigan Schools

Exhibit 3:

2012-13 MVS Summary of Courses, Enrollments and Completion Rates

Dryden High School
Early College Alliance
East Grand Rapids High School
East Lansing High School
East Middle School-Farmington Hills
Eastern High School-Forest Hills
Eastern Middle School
Eastern Washtenaw Multicultural Academy
Eaton Rapids Senior High School
Edison Public School Academy
Edsel Ford High School
Edwardsburg High School
Eisenhower High School
Elk Rapids High School
Ellsworth Community School-Ellsworth
Engadine Schools
Eppler Junior High School
Eton Academy
Ewart High School
Everest Academy
Everett High School
Ewen-Trout Creek Consolidated School
Excel Charter Academy
Fairview High School
Farmington High School
Fennville Public High School
Ferndale High School
FlexTech High School
Fordson High School
Forest Park School
Fowler High School
Fowlerville High School
Fr. Gabriel Richard High School
Fr. Marquette Middle School
Frank Jeannette Jr. High School
Frankenmuth High School
Frankfort High School
Freeland Middle School/High School
Fremont High School
Fulton High School

Gabriel Richard Catholic High School	Ishpeming High School	Manistee High School
Galesburg-Augusta High School	Island City Academy	Manistique Middle and High School
Galesburg-Augusta Middle School	Ithaca High School	Maple City-Glen Lake Jr/Sr High School
Garber High School	J.W. Sexton High School	Maple Street Magnet School for the Arts
Gaylord High School/Voc. Bldg.	JCC/LISD Academy: A Regional Middle College	Maple Valley Jr/Sr High School
Gladwin High School	Jefferson Middle School-Saint Clair Shores	Marine City High School
Gobles High School	John Glenn High School-Westland	Marlette Jr./Sr. High School
Godwin Heights Senior High School	Kalamazoo Christian High School	Marquette Senior High School
Grandville High School	Kelloggsville High School	Marshall High School
Grass Lake High School	Kenowa Hills High School	Martin High School
Great Oaks Academy	Kensington Woods High School	Mason High School
Grosse Ile High School	Kent City High School	Mattawan High School
Grosse Pointe North High School	Kingsford High School	Mayville High School
Grosse Pointe South High School	Kingsley Area High School	Meads Mill Middle School
Gull Lake High School	Kingston High School	Mendon Middle/High School
Gull Lake Virtual School	Knapp Charter Academy	Menominee High School
H.H. Dow High School	Ladywood High School--Detroit	Meridian High School
Hamilton High School	Laingsburg High School	Merrill High School
Hancock Central High School	Lake City High School	Michigan Center Jr/Sr High School
Hanover-Horton High School	Lake Linden-Hubbell High School	Michigan Islamic Academy
Harbor Beach Community High School	Lakeland High School	Michigan School for the Deaf
Harbor Springs High School	Laker High School	Michigan Works
Harper Creek High School	Lakeshore High School	Midland Academy of Advanced and Creative Studies
Harper Woods High School	Lakeview High School-Battle Creek	Midland High School
Harrison Community High School	Lakeview High School-Saint Clair Shores	Milford High School
Harrison High School	Lakeview Middle School-Battle Creek	Mill Creek Middle School-Dexter
Hartford High School	Lamphere High School	Millington High School
Hartland High School	L'Anse Creuse High School	Mona Shores High School
Hartland Virtual Academy	L'Anse Creuse High School - North	Monroe Virtual School
Haslett High School	L'Anse Creuse Middle School - South	Montabella Junior/Senior High
Hemlock High School	Lansing Catholic Central High School	Mount Clemens High School
Henry Ford Academy	Lansing Christian School	Muir Middle School
Henry Ford Academy: School for Creative Studies (PSAD)	Lapeer West Senior High School	Mumford High School
Henry Ford II High School	Larson Middle School	Munising High and Middle School
Heritage Junior High School	LaSalle High School	Muskegon Catholic Central High School
Hesperia High School	Lawton High School	Napoleon High School
Holland Christian High School	LCC - HSDCI	Negaunee High School
Holland High School	Lee M. Thurston High School	New Buffalo Senior High School
Holly High School	Legacy Charter Academy	New Haven High School
Holt Lutheran Schools	Leland Public School	New Life Christian Academy
Holt Senior High School	Lenawee Christian School	Niles Community High School
Holton High School	Linden Grove Middle School	Niles Senior High School
Honey Creek Community School	Litchfield High School	North Adams High School
Hopkins High School	Loy Norrix High School	North Branch High School
Houghton Central High School	Ludington High School	North Central Area Jr/Sr High School
Houghton Lake High School	Luther L. Wright High School	North Dickinson School
Howell High School	Lutheran High School South	North Farmington High School
Huron High School-New Boston	Mackinac Island School	North Huron School
Huron Valley Lutheran High School	Malow Junior High School	North Muskegon High School
Ida High School	Manchester High School	North Road Elementary School
Imlay City High School	Manistee Catholic Central Schools	North Star Academy-Marquette
Innocademy		Northern High School-Forest Hills
Ionia High School		Northport Public School
Iron Mountain High School		

Northview High School	Romeo High School	Three Rivers High School
Northville High School	Roscommon High School	Tinkham Virtual Shared Time
Northwest High School	Royal Oak High School	Program
Norway High School	Rudyard High School	Traverse City College Preparatory
Notre Dame Preparatory School	Sacred Heart Academy	Academy
Novi High School	Saginaw Arts and Sciences Academy	Traverse City East Middle School
O.E. Dunckel Middle School	Saint Germaine Catholic School	Traverse City Shared-Time Schools
Oakland Christian School	Saline High School	Tri County Senior High School
Oakland International Academy- Middle/High	Sand Creek High School	Trinity Lutheran School-Paw Paw
Oakridge High School	Sandusky High School	Tri-Township School
Ogemaw Heights High School	Saranac High School	Tri-Unity Christian High School
Olivet High School	Saugatuck High School	Troy Adult Education
Onekama Middle/High School	Sault Area High School	Ugly Community High School
Ontonagon Area Jr/Sr High School	Sawdon High School	Union City High School
Orchard View High School	Schoolcraft High School	Unionville-Sebewaing High School
Otsego High School	Shelby High School	Unity Christian High School
Ovid-Elsie High School	Shepherd High School	University of Detroit Jesuit
Owosso High School	Shrine High School	Utica Academy for International
Oxford High School	South Arbor Charter Academy	Studies
Paw Paw High School	South Canton Scholars Charter	Utica High School
Peck Jr./Sr. High School	Academy	Van Hoosen Middle School
Pennfield Senior High School	South Christian High School	Vandercook Lake High School
Perry High School	South Haven High School	Vassar Senior High School
Pewamo-Westphalia Jr. Sr. High	South Lyon East High School	Veritas Christi Catholic High School
School	South Lyon High School	Vestaburg Community High School
Phoenix Alternative High School- Powers	Southfield Christian School	Vicksburg High School
Pickford High School	Southgate Anderson High School	Wakefield-Marenisco School
Pinckney Community High School	Sparta Senior High School	Walker Charter Academy
Pinconning High School	Spring Lake High School	Walkerville High School
Pioneer Tech High School	St. Clair High School	Walled Lake Central High School
Plainwell High School	St. Philip Catholic Central High	Walled Lake Northern High School
Plymouth Christian Academy	School	Walled Lake Western High School
Pontiac High School	St. Regis School	Warren Woods Tower High School
Port Huron High School-St Clair	St. Thomas School	Watersmeet Township School
RESA	Standish-Sterling Central High	Watervliet Senior High School
Port Huron Northern High School-St	School	Wayland High School
Clair RESA	Stevenson High School	Wayne Memorial High School
Portage Central High School	Stockbridge High School	Webberville High School
Portage Northern High School	Stoney Creek High School	Wellspring Preparatory High School
Pottsville High School	STP - Calvary Christian	West Iron County High School
Powell Twp. Elementary School	STP - Faithway Christian	West Michigan Aviation Academy
Quincy High School	STP - Livingston Christian	West Michigan Lutheran High
Reading High School	STP - St. Catherine	School
Redford Union High School	STP - Washtenaw Christian	West Ottawa High School Campus
Reed City High School	Sturgis High School	West Senior High
Renaissance High School-Clarkston	Superior Central School	Western High School
Renaissance High School-Detroit	Suttons Bay Senior High School	White Cloud High School
Republic-Michigamme School	Swan Valley High School	Whitehall Senior High School
Richmond Community High School	Swartz Creek Global Learning Hub	Whitmore Lake High School
River Rouge High School	Swartz Creek High School	Williamston High School
Riverview Community High School	TA Wilson School	Wolverine Middle/High School
Rochester Adams High School	Tecumseh High School	Wyoming High School
Rochester High School	The Early College @ Lansing	Yale High School-St Clair RESA
Rockford High School	Community College	Zeeland East High School
Rogers City High School	The Manor	Zeeland West High School
	Thornapple Kellogg High School	
	Three Lakes Academy	

Exhibit 2 2012-13 Online Course Titles Offered by the MVS to Michigan Schools

Math Courses	English Courses	Science Courses
Math Tracks	English 6 (A)	Science Tracks
Mathematics 6 (A)	English 6 (B)	Science Foundations (A)
Mathematics 6 (B)	English 6 (A) - Advanced	Science 6 (A)
Mathematics 6 (A) - Advanced	English 6 (B) - Advanced	Science 6 (B)
Mathematics 6 (B) - Advanced	English 7 (A)	Science 7 (A)
Mathematics 7 (A)	English 7 (B)	Science 7 (B)
Mathematics 7 (B)	English 7 (A) - Advanced	Science 8 (A)
Mathematics 7 (A) - Advanced	English 7 (B) - Advanced	Science 8 (B)
Mathematics 7 (B) - Advanced	English Foundations 1 (A)	Physical Science (A)
Mathematics 8 (A)	English Foundations 1 (B)	Physical Science (B)
Mathematics 8 (B)	English 8 (A)	Earth Science (A)
Mathematics 8 (A) - Advanced	English 8 (B)	Earth Science (B)
Mathematics 8 (B) - Advanced	English 8 (A) - Advanced	Astronomy
Basic Math 1 (A)	English 8 (B) - Advanced	Human Space Exploration
Basic Math 1 (B)	English 9 (A)	Oceans & Their Ecosystems
Basic Math 2 (A)	English 9 (B)	Oceanography (A)
Basic Math 2 (B)	English 10 (A)	Oceanography (B)
Pre-Algebra (A)	English 10 (B)	Environmental Science (A)
Pre-Algebra (B)	English 11 (A)	Environmental Science (B)
Pre-Algebra (A) - Numbers	English 11 (B)	Forensic Science - Introduction
Pre-Algebra (B) - Numbers	English 12 (A)	Forensic Science - Advanced
Algebra 1 (A)	English 12 (B)	Health
Algebra 1 (B)	Composition - Beginning	Biology (A)
Integrated Math 1 (A)	Composition - Advanced	Biology (B)
Integrated Math 1 (B)	American Film Survey	Bioethics
Algebra 1	Directors of the Golden Age	Anatomy & Physiology (A)
Algebra 2 (A)	Journalism	Anatomy & Physiology (B)
Algebra 2 (B)	Reading	Chemistry (A)
Integrated Math 2 (A)	Writing Skills and Strategies	Chemistry (B)
Integrated Math 2 (B)	World Literature	Physics (A)
Geometry (A)	AP English Lang. & Comp. (A)	Physics (B)
Geometry (B)	AP English Lang. & Comp. (B)	AP Environmental Science (A)
Personal Finance (A)	AP English Lit. & Comp. (A)	AP Environmental Science (B)
Personal Finance (B)	AP English Lit. & Comp. (B)	AP Biology (A)
Mathematics of Baseball		AP Biology (B)
Trigonometry		AP Chemistry (A)
Pre-Calculus (A)		AP Chemistry (B)
Pre-Calculus (B)		AP Physics B (A)
Calculus (A)		AP Physics B (B)
Calculus (B)		AP Physics C - Mechanics (A)
Probability and Statistics (A)		AP Physics C - Mechanics (B)
Probability and Statistics (B)		
AP Calculus AB (A)		
AP Calculus AB (B)		
AP Calculus BC (A)		
AP Calculus BC (B)		
AP Statistics (A)		
AP Statistics (B)		

Social Studies Courses

World Cultures 6 (A)
World Cultures 6 (B)
World Cultures 6 (A) - Advanced
World Cultures 6 (B) - Advanced
World Geography 7 (A)
World Geography 7 (B)
World Geography 7 (A) - Adv.
World Geography 7 (B) - Adv.
U.S. History 8 (A)
U.S. History 8 (B)
Civics
U.S. Government
Economics
U.S. & Global Economics
Legal Issues
Psychology
Psychology (A)
Psychology (B)
Sociology
Global Issues & Perspectives
Geography
U.S. History & Geography (A)
U.S. History & Geography (B)
U.S. History (A)
U.S. History (B)
World History (A)
World History (B)
Native American History
Multicultural Studies
AP Macroeconomics
AP Microeconomics
AP U.S. Government & Politics
AP Psychology
AP U.S. History (A)
AP U.S. History (B)

World Language Courses

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

World Language (Cont.)

Latin 3 (B)
Spanish 1 (A)
Spanish 1 (B)
Spanish 2 (A)
Spanish 2 (B)
Spanish 3 (A)
Spanish 3 (B)
AP Spanish (A)
AP Spanish (B)

Other Elective Courses

Basic Software App. (6-8)
Art Appreciation
In Search of Cyrano
Music Appreciation (A)
Music Appreciation (B)
Personal Fitness
Physical Education
Study Skills
Employability Skills
Careers - Find Your Future
Career Planning
Medical Terminology
Business Ethics
Entrepreneur Bus. Management
Entrepreneur Business Planning
Basic Software Applications
Microsoft Office 2007
Digital Photography
C++ Programming (A)
Java Programming
Visual Basic.Net Programming
Web Design Basics HTML
Game Design
Flash Animation
AP Art History (A)
AP Art History (B)
AP Computer Science A (A)
AP Computer Science A (B)

Exhibit 3 2012-13 MVS Summary of Courses, Enrollments and Completion Rates

Math Course Titles	Total N	Comp Rate	ELA Course Titles	Total N	Comp Rate
Mathematics 6 (A)	4	50.0%	English 6 (A)	2	0.0%
Mathematics 6 (B)	1	100.0%	English 6 (A) - Advanced	2	0.0%
Mathematics 6 (A) - Advanced	1	100.0%	English 7 (A)	6	66.7%
Mathematics 7 (A)	4	50.0%	English 7 (B)	4	75.0%
Mathematics 7 (B)	4	75.0%	English 7 (A) - Advanced	2	100.0%
Mathematics 7 (A) - Advanced	3	66.7%	English Foundations 1 (A)	5	60.0%
Mathematics 8 (A)	5	60.0%	English 8 (A)	10	80.0%
Mathematics 8 (B)	3	66.7%	English 8 (B)	13	69.2%
Basic Math 1 (A)	13	92.3%	English 8 (A) - Advanced	1	100.0%
Basic Math 2 (A)	6	83.3%	English 8 (B) - Advanced	2	100.0%
Basic Math 2 (B)	1	0.0%	English 9 (A)	109	73.4%
Pre-Algebra (A)	44	79.5%	English 9 (B)	104	73.1%
Pre-Algebra (B)	22	81.8%	English 10 (A)	107	74.8%
Algebra 1 (A)	158	77.8%	English 10 (B)	105	75.2%
Algebra 1 (B)	179	77.1%	English 11 (A)	123	73.2%
Algebra 2 (A)	195	70.8%	English 11 (B)	100	87.0%
Algebra 2 (B)	177	84.7%	English 12 (A)	108	85.2%
Geometry (A)	206	83.5%	English 12 (B)	88	85.2%
Geometry (B)	197	84.8%	Composition - Beginning	43	89.8%
Personal Finance (A)	258	86.4%	Composition - Advanced	24	95.8%
Personal Finance (B)	248	92.7%	American Film Survey	177	89.3%
Mathematics of Baseball	192	95.8%	Directors of the Golden Age	52	96.2%
Trigonometry	53	90.6%	Journalism	63	93.7%
Pre-Calculus (A)	84	91.7%	Reading	25	92.0%
Pre-Calculus (B)	60	90.0%	World Literature	48	91.7%
Calculus (A)	36	75.0%	AP English Lang. & Comp. (A)	28	89.3%
Calculus (B)	8	50.0%	AP English Lang. & Comp. (B)	24	100.0%
Probability and Statistics (A)	80	86.3%	AP English Lit. & Comp. (A)	31	80.6%
Probability and Statistics (B)	17	64.7%	AP English Lit. & Comp. (B)	22	90.9%
AP Calculus AB (A)	33	90.9%			
AP Calculus AB (B)	21	100.0%			
AP Calculus BC (A)	37	94.6%			
AP Calculus BC (B)	33	90.9%			
AP Statistics (A)	82	95.1%			
AP Statistics (B)	68	95.6%			

Science Course Titles	Total N	Comp Rate
Science Foundations (A)	4	50.0%
Science 6 (A)	1	100.0%
Science 7 (A)	7	42.9%
Science 7 (B)	3	66.7%
Science 8 (A)	10	90.0%
Science 8 (B)	12	75.0%
Physical Science (A)	44	81.8%
Physical Science (B)	34	85.3%
Earth Science (A)	74	90.5%
Earth Science (B)	46	93.5%
Astronomy	218	89.9%
Human Space Exploration	56	91.1%
Oceans & Their Ecosystems	68	83.8%
Oceanography (A)	181	93.9%
Oceanography (B)	50	94.0%
Environmental Science (A)	46	89.1%
Environmental Science (B)	7	100.0%
Forensic Science - Intro.	432	92.8%
Forensic Science - Advanced	77	90.9%
Health	324	88.0%
Biology (A)	106	81.1%
Biology (B)	109	86.2%
Bioethics	82	91.5%
Anatomy & Physiology (A)	189	87.8%
Anatomy & Physiology (B)	85	96.5%
Chemistry (A)	114	76.3%
Chemistry (B)	89	83.1%
Physics (A)	63	76.2%
Physics (B)	47	89.4%
AP Environmental Science (A)	28	96.4%
AP Environmental Science (B)	24	91.7%
AP Biology (A)	49	87.8%
AP Biology (B)	38	81.6%
AP Chemistry (A)	14	78.6%
AP Chemistry (B)	4	100.0%
AP Physics B (A)	47	91.5%
AP Physics B (B)	37	97.3%
AP Physics C - Mechanics (A)	27	96.3%
AP Physics C - Mechanics (B)	30	93.3%

Social Studies Course Titles	Total N	Comp Rate
World Cultures 6 (B)	1	100.0%
World Geography 7 (A)	10	70.0%
World Geography 7 (B)	3	100.0%
U.S. History 8 (A)	11	100.0%
U.S. History 8 (B)	13	84.6%
Civics	291	89.0%
U.S. Government	82	95.1%
Economics	308	93.5%
Legal Issues	177	83.6%
Psychology	377	92.8%
Sociology	220	90.5%
Global Issues & Perspectives	22	81.8%
U.S. History & Geography (A)	1	0.0%
U.S. History (A)	119	84.0%
U.S. History (B)	104	89.4%
World History (A)	202	92.1%
World History (B)	234	94.0%
Native American History	110	98.2%
AP Macroeconomics	93	94.6%
AP Microeconomics	86	95.3%
AP Psychology	268	94.4%
AP U.S. History (A)	34	94.1%
AP U.S. History (B)	26	92.3%
AP U.S. Government & Politics	52	86.5%

World Language Course Titles	Total N	Comp Rate
French 1 (A) and Span 1 (A)	1	100.0%
French 1 (A) (6-8)	43	34.9%
French 1 (B) (6-8)	11	90.9%
German 1 (A) (6-8)	11	27.3%
German 1 (B) (6-8)	3	100.0%
Spanish 1 (A) (6-8)	26	69.2%
Spanish 1 (B) (6-8)	22	95.5%
Chinese 2 (A)	20	70.0%
Chinese 2 (B)	8	87.5%
Chinese 3 (A)	13	100.0%
Chinese 3 (B)	15	80.0%
American Sign Lang. 1 (A)	389	87.1%
American Sign Lang. 1 (B)	150	97.3%
Chinese 1 (A)	63	84.1%
Chinese 1 (B)	42	88.1%
Chinese 2 (A)	27	85.2%
Chinese 2 (B)	19	100.0%
Chinese 3 (A)	9	66.7%
Chinese 3 (B)	7	71.4%
Chinese 4 (A)	6	100.0%
Chinese 4 (B)	6	83.3%
French 1 (A)	263	76.8%
French 1 (B)	155	77.4%
French 2 (A)	92	87.0%
French 2 (B)	81	92.6%
French 3 (A)	48	89.6%
French 3 (B)	30	80.0%
French 4 (A)	22	100.0%
French 4 (B)	14	100.0%
AP French (A)	12	83.3%
AP French (B)	7	100.0%
German 1 (A)	230	77.0%
German 1 (B)	111	81.1%
German 2 (A)	67	82.1%
German 2 (B)	43	83.7%
German 3 (A)	18	77.8%
German 3 (B)	10	90.0%
German 4 (A)	10	70.0%
German 4 (B)	7	71.4%
Japanese 1 (A)	152	73.7%
Japanese 1 (B)	76	77.6%
Japanese 2 (A)	31	90.3%
Japanese 2 (B)	24	100.0%
Latin 1 (A)	144	86.1%
Latin 1 (B)	82	91.5%
Latin 2 (A)	30	96.7%
Latin 2 (B)	22	100.0%
Latin 3 (A)	5	100.0%
Latin 3 (B)	3	100.0%
Spanish 1 (A)	313	70.9%

World Languages (Cont.)	Total N	Comp Rate
Spanish 1 (B)	268	75.7%%
Spanish 2 (A)	114	86.0%
Spanish 2 (B)	92	92.4%
Spanish 3 (A)	77	66.2%
Spanish 3 (B)	31	80.6%
AP Spanish (A)	37	86.5%
AP Spanish (B)	25	84.0%

Other Elective Course Titles	Total N	Comp Rate
Basic Software Applications (6-8)	5	60.0%
Art Appreciation	87	85.1%
In Search of Cyrano	5	80.0%
Music Appreciation (A)	167	94.0%
Music Appreciation (B)	37	94.6%
Personal Fitness	149	89.3%
Study Skills	296	81.1%
Employability Skills	141	95.0%
Careers - Find Your Future	134	83.6%
Career Planning	203	86.2%
Medical Terminology	331	87.9%
Business Ethics	267	93.6%
Entrepreneur Busin. Management	303	95.0%
Entrepreneur Business Planning	163	77.3%
Basic Software Applications	10	90.0%
Microsoft Office 2007	20	90.0%
Digital Photography	209	88.5%
Java Programming	105	73.3%
Visual Basic.Net Programming	71	88.7%
Web Design Basics HTML	122	82.8%
Game Design	167	87.4%
Flash Animation	45	93.3%
AP Art History (A)	20	100.0%
AP Art History (B)	16	100.0%
AP Computer Science A (A)	59	86.4%
AP Computer Science A (B)	40	95.0%

2012-13 Annual Report

December 2013



Michigan Virtual Learning Research
INSTITUTE™
A Division of MVU

In 2012, the Governor and Michigan Legislature passed legislation requiring the *Michigan Virtual University*® (MVU®) to establish a center for online learning research and innovation, and through this center, directed MVU to work on a variety of projects. The center, now formally known as the *Michigan Virtual Learning Research Institute*™, is a natural extension of the work of MVU. A report providing an overview of activities conducted by the *Institute* to address legislatively-designated projects for 2012-13 is available for free download at:

http://media.mivu.org/institute/pdf/Annual_Report_2013.pdf

MICHIGAN
VIRTUAL
UNIVERSITY

