A Report to the Legislature

MVU Board of Directors

Michigan Virtual University® is a not-for-profit Michigan corporation established in 1998 to deliver online education and training opportunities to the citizens of Michigan. It is the parent organization of the *Michigan Virtual School*® and *Michigan LearnPort*®. *MVU*® is governed by a board of directors representing the business and education communities.

A REPORT TO THE LEGISLATURE

This report is submitted in compliance with Section 98 (8) of Public Act 110 of 2010, which requires the *Michigan Virtual University® (MVU®)* to provide not later than December 1, 2010, 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* and *Michigan LearnPort* 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 more than a decade *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 over the past ten years more than 80,000 course enrollments have been recorded. During 2009-10 the *MVS* had 14,837 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 nearly 700 online courses and training modules for Michigan educators and school employees; and *myDreamExplorer®* (*MDX*) a rich

collection of online career exploration and planning resources that supported over 26,350 middle and high school students during 2009-10.

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 2005 the *MVS* was awarded accreditation by the North Central Association Commission on Accreditation and School Improvement (NCA CASI) and the Commission on International and Trans-Regional Accreditation (CITA). Both accreditation organizations are divisions of AdvancED®. In October 2010 the *MVS* completed a rigorous Quality Assurance Review process that is a requirement for renewing and maintaining its approved accreditation status. 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 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. *MVU* has invested significant time and resources to help create a general awareness of online learning for Michigan's students, parents and educators. The organization has also supported the introduction of online courses in hundreds of individual local schools across the state.

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 K-12 education personnel. As course enrollments expand *MVU* continues to offer new and effective online services for K-12 schools and educators.

A third role for *MVU* has evolved as schools adopt locally developed online learning programs. For *MVU*, this capacity building role includes helping schools with teacher training, acquiring online content, online assessments, quality assurance, evaluation, infrastructure and technical support services. *MVU's* statewide outreach activities are designed to help determine how the organization can best support local implementation efforts. This cycle of innovation, quality service and customer support continues to evolve as *MVU* works in collaboration with schools, students and parents.

Scope of the Report

The information provided in this report addresses the six specific requirements that are listed in Section 98 (8) of P.A. 110 of 2010. These items include 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, grant expenditure information for the period October 1, 2009 - September 30, 2010, and the identification of unmet needs that could be addressed by the *MVS*. Supplemental information is included in this report that summarizes 2009-10 expenditures for two federal grants that support *MVU* online learning programs.

Michigan Schools Served by the MVS

From October 1, 2009 - September 30, 2010, the *MVS* served students enrolled in 423 Michigan local education agencies (LEAs), public school academies (PSAs), intermediate school districts (ISDs) and nonpublic schools, including schools that have been identified by the Michigan Department of Education (MDE) as not meeting adequate yearly progress (AYP). Figure 2 provides a geographic representation of *MVS* course enrollments by county units for the public and nonpublic schools and home schools that enrolled students during 2009-10.

During this period, schools and families in 76 of the state's 83 counties were supported with *MVS* online courses and programs.

A complete list of the Michigan schools served during 2009-10 is included in Exhibit 1. In addition, the *MVS* registered 1,530 student enrollments from 946 Michigan home schools during 2009-10. School or district enrollments in *MVS* courses over the past year ranged from a single student enrollment to 417 student enrollments. The average student enrollment per school or district during 2009-10 was 31 students.

Figure 2
2009-10 MVS Course Enrollments by County Jurisdictions

- ☐ > 1,000 Enrollments
- ☐ 501 - 1,000 Enrollments
- ☐ 101 - 500 Enrollments
- ☐ 51 - 100 Enrollments
- ☐ 1 - 50 Enrollments
- ☐ No Enrollments
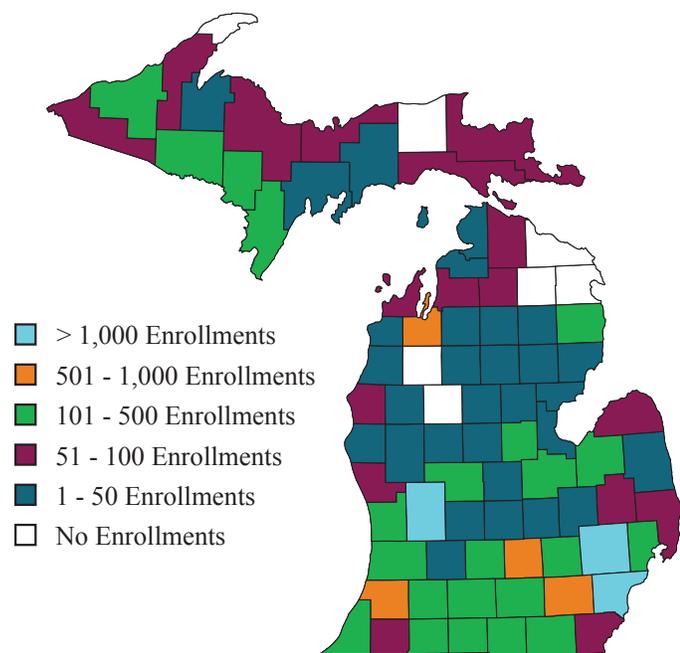
Online Courses Available to Michigan Schools from the MVS

Exhibit 2 provides a listing of the online courses offered by the *MVS* to Michigan schools and parents during the period October 1, 2009 - September 30, 2010. 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 288 possible courses, representing core academic courses that are specifically aligned with the Michigan Merit Curriculum (MMC), 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 (79%) are offered at the high school level, but approximately 60 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 two-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 new graduation requirements and to help meet the demand for courses and highly qualified instructors in curriculum content areas where teacher shortages have been predicted. Since initial implementation, these courses have been 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.

MVS Online Course Enrollments, Registrations and Completions by Course

The overall average completion rate for the *MVS* courses offered in the fall 2009, spring 2010 and summer 2010 semesters was 84 percent. This includes 12,709 Michigan student enrollments in semester-length instructor-led *MVS* courses and excludes students enrolled in *MVS* summer enrichment programs, ungraded pilot programs or 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 a common practice in online learning to drop enrollments with less than 10 percent of the possible points to correct for students who never get going or who had no significant activity in their courses.

Figure 3 provides a summary of the *MVS* course completion rates by curriculum content area. Course completion rates ranged from over 75 percent in English language arts courses, to more than 80 percent in mathematics, science and other elective courses, and to over 85 percent in social studies and world language courses. As previously noted, the category titled "Other" includes elective courses such as Career Planning, Basic Software Applications, Digital Photography, Entrepreneurship and Music Appreciation. The 2009-10 *MVS* student course completion rates by individual course title can be found in Exhibit 3.

Figure 3
2009-10 MVS Average Course
Completion Rate by Content Area
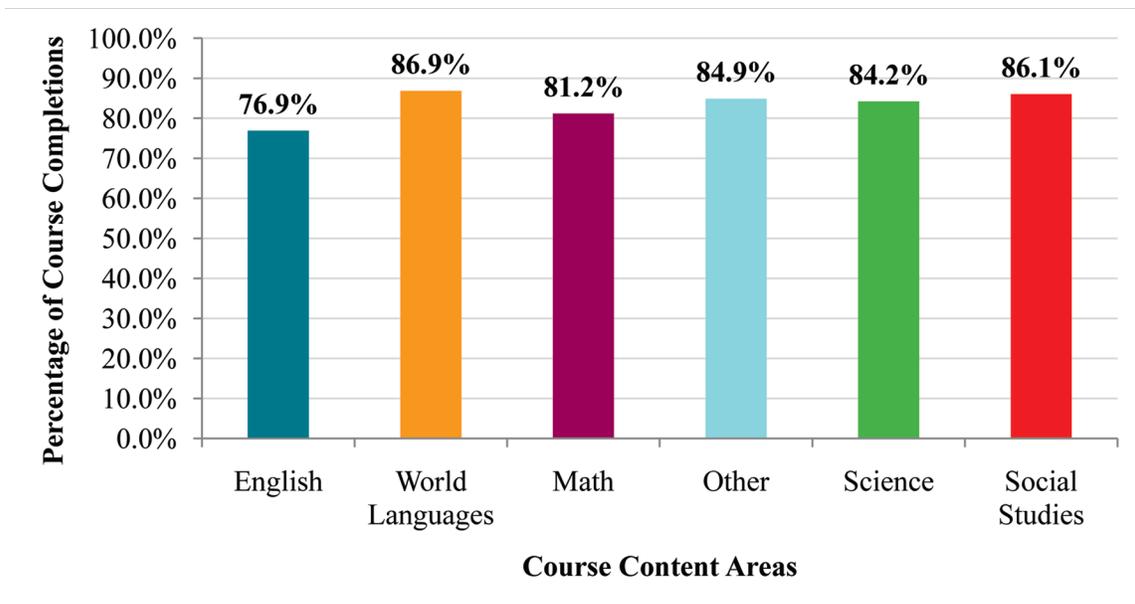
Figure 4
Frequency of 2009-10 MVS Students' Final Scores

Student Final Scores (Average Score = 76.2%)

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 courses with the highest enrollments and the corresponding student completion rates recorded during 2009-10. These 10 courses represent approximately 13 percent of all *MVS* courses offered during the reporting period.
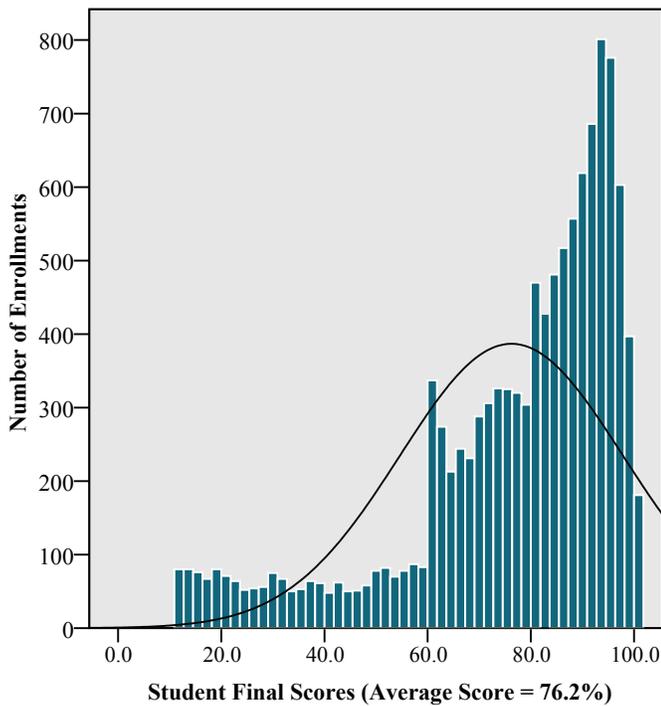
Figure 4 represents the frequency of students' final scores for the 11,526 course enrollments recorded during the 2009-10 school year. The histogram takes into account any student enrollment earning a minimum of 10 percent of the possible points from the 227 courses that schools and students actually selected from the *MVS* course catalog during this period. The 2009-10 school year included a fall, spring, and summer semester, as well as three trimesters offered in the fall and spring.

It is a priority for the *MVS* to provide ongoing support and assistance to the local school mentors, counselors and administrators who are responsible for enrolling students in *MVS* courses. *MVS* student course completion rates continue to increase as a result of improved monitoring and communication, additional student support services and steps taken to streamline the process for formally dropping students from courses they do not intend to complete or actively participate

Figure 5
Top Ten MVS Core Content Area Courses by Enrollments

Course Title	Enrollment Totals	Comp %
Forensic Science (Intro.)	288	83.5%
Economics MMC	214	92.5%
Psychology A	207	90.9%
Astronomy	199	89.5%
German 1A	196	80.4%
French 1A	188	87.4%
Civics MMC	173	91.1%
AP Psychology	173	89.3%
Anatomy & Physiology A	170	87.9%
Sociology	161	85.1%
	Total 1,969	**Overall Avg. 87.6%**

The *MVS* also offered 34 courses during 2009-10 with five or fewer enrollments recorded, including semester or trimester sections of World Geography, Health Education, Basic Software Applications and fourth year French, German and Spanish language courses. The average completion rate for these low

enrollment courses was approximately 80 percent. The *MVS* offers a variety of courses to ensure that a wide range of student interests and needs are met. Michigan school administrators have consistently indicated 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 are typically not available through their local school. Approximately 36 percent of the 2009-10 *MVS* enrollments can be attributed to the courses not being available locally. In meeting these requests, the *MVS* tends to serve students on each end of the achievement spectrum. During 2009-10 the *MVS* offered 32 AP courses and recorded 934 enrollments. This represents about six percent of the course enrollments during this period. Approximately 21 percent of the 2009-10 *MVS* course enrollments can be attributed to students with credit recovery needs. Many schools in Michigan do not allow students to enroll in online courses that are also offered 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 contribute to the selection, completion and achievement rates 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 expand its free mentor training to schools as they develop greater capacity to support online learners in their communities.

Identification of Unmet Educational Needs That MVU Could Address

Nearly every sector of our economy is turning to information and communications technologies to reduce costs and improve efficiencies. K-12 education is not alone in its need to manage scarce resources, maintain relevance and succeed in today's new global economy.

To date, the education sector has yet to realize the full potential of using technology and the Internet to improve how educators teach and how students learn. This is exacerbated by the fact that Michigan's current school funding model is based primarily on student seat-time, as opposed to demonstrated proficiencies. Over the past decade, *MVU* has developed the technical infrastructure and the capacity to deliver high quality online courses and instructional materials through a cadre of highly qualified Michigan-certified instructors. This has enabled *MVU* to support a broad range of needs facing the state's students, educators and policy makers. As Michigan's state-sponsored virtual school, the *MVS* stands ready to work with K-12 schools and other public and private sector partners to increase high school completion rates, expand world language opportunities, create specialized science, technology, engineering and math (STEM) courses and professional development opportunities, and provide support for Michigan students as they prepare for college. *MVU* has identified four proposals for the consideration of state policy makers to address unmet educational needs and to enhance the growth and development of Michigan's online learning industry.

1. Develop Local Capacity to Implement Online and Blended Learning Models

Historically Michigan schools have used online courses, products and services primarily as a supplemental instructional resource. Most K-12 educators have limited experience with teaching in fully online or blended (online and face-to-face) environments. *MVU* is uniquely positioned to work cooperatively with key stakeholder organizations and the K-12 community to develop a more robust statewide online learning capacity building program. This capacity building effort could include helping schools with teacher training, acquiring online content, online assessments, quality assurance measures, student evaluation, and infrastructure and technical support services. A comprehensive statewide capacity building initiative could help all Michigan school districts and public school academies become more effective users of online

learning resources to reduce costs and improve learning outcomes. This statewide initiative could include guidance and effective strategies for using social networking technologies to foster innovation.

2. Establish an Alternative Educational Path for Special Student Populations

Online learning can provide a meaningful alternative for students in Michigan who have a need for greater flexibility with their education due to individual learning styles, lack of success with traditional school environments, health conditions, employment responsibilities or a desire to be working early at the college level. However, Michigan's current school funding policy does not empower students and their parents to take advantage of this option. A strategy to expand online learning opportunities for students and parents will require an amendment to the current Michigan School Code to create appropriate incentives for middle and high schools to provide students with expanded access to high quality alternative online courses such as those available from the *MVS*. An alternative path for at-risk students could be selected when one or more of the following conditions exist:

- The student is home schooled or has health issues that prevent regular school attendance;
- The student has failed at least one course at school and has expressed an interest in re-taking the course in an online format;
- The student has an interest in taking a specific course that is not available at their school;
- The student has dropped out of school or has been expelled for disciplinary reasons;
- The student is employed during regular school hours due to family financial hardship.

Creating new options and incentives for students, parents and schools could help reduce dropout rates, support student success, increase high school graduation levels and open avenues for future educational opportunities.

3. Expand Science, Technology, Engineering and Mathematics (STEM) Education Resources

One imperative in the transformation of Michigan's economy is the need for a systematic change in the way that science, technology, engineering and mathematics (STEM) curricula are approached and supported in K-12 schools. It is widely accepted that many of the new jobs that will be created over the next several years will require people with knowledge and skills in these key curriculum areas. *MVU* and other organizations including the Michigan Mathematics and Science Centers Network (MMSCN) have created a partnership to help provide greater access to STEM-related teaching and learning resources for schools, students and families. An innovative proposal being explored is to create a statewide collaborative STEM Center of Excellence to develop and share high-quality specialized online math, science, technology and engineering courses and resources, with associated teacher professional development, all designed to connect the student more directly with STEM applications in the real world. One of the goals is to increase motivation and engagement by providing access to online tools that encourage students to manipulate and experiment with whatever is being studied, and helping teachers increase student achievement.

4. Position Michigan as a Leading Global Education Provider in the Knowledge Economy

Access to quality educational services within the K-12 community is no longer exclusively dependent on the availability of local classrooms, textbooks and teachers. A new global market has emerged as parents, schools and youth organizations seek online courses that include rich multimedia content and highly qualified instructors. Michigan has a strategic opportunity to leverage its nationally recognized teacher preparation leadership role through the development of an initiative to help prepare the next generation of teachers to become tech-savvy

online instructional experts. Today, too many teacher education graduates are leaving Michigan in order to find employment in the teaching profession. Michigan's teacher preparation institutions should place a higher priority on preparing tomorrow's educators to teach in virtual environments. As skilled online instructors, new teachers could choose to stay in Michigan and teach students around the globe via the Internet. *MVU* currently operates one of the largest virtual schools in the U.S. and has more than a decade of experience developing and delivering innovative online courses to K-12 schools. Building on previous strategic investments, Michigan has an opportunity to export high quality online K-12 educational services to other states and nations.

Summary of DED-OESE, Title IIA Teacher Quality Grant and DED-OESE, Title IID Education Technology Grant Expenditures

The *MVU* receives annual Legislative appropriations through two federal grant programs to support online learning in Michigan schools. The Title IIA Teacher Quality Grant provides funding to support *Michigan LearnPort*, a statewide communication and professional development portal developed in partnership with the MDE to serve Michigan educators and members of the K-12 community. *Michigan LearnPort* is redefining how professional development services are delivered by making effective use of innovative Web-based tools and resources.

The Title IID Enhancing Education Through Technology Grant provides funding to build *MVU's* statewide capacity for providing high quality online services and delivering courses and instruction in

innovative ways to nontraditional K-12 audiences. The Title IID Grant enables the *MVS* to provide no-cost course scholarships for students to expand enrollments in online courses in Michigan schools, including schools that have been identified for improvement or corrective action. During 2009-10 the *MVS* worked in partnership with several intermediate school districts to expand online learning opportunities. Grant expenditure summary information for both grant programs for 2009-10 is included as Supplemental Information in Exhibit 4.

Conclusion

At a time when new investments in K-12 education system are not likely, Michigan's schools must meet the challenges of improving student achievement at all grade levels and increase graduation rates with fewer financial resources. The potential reach and impact of online learning is growing and it represents a key component of our current education system and an area for significant development in the future. Expanding Michigan's leadership role in online education can enhance educational quality and support the state's long-term economic development strategy. The transition of learning environments from traditional classroom models to multimedia rich online courses and resources 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 develop Michigan's online learning industry and to help position the state to assume a national leadership role in the knowledge economy.

MVU Vision

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

MVU Mission

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

Exhibit 1 2009-10 Michigan Schools Served

A.D. Johnston Jr./Sr. High School
Academic & Career Education Academy
Academy for Business & Tech H.S.
Academy of Oak Park - Mendota Campus
Achieve Charter Academy
Addison High School
Adlai Stevenson High School
Advanced Technology Academy
Akron-Fairgrove Jr./Sr. High
Alanson High School
Alba School
Albion Senior High School
Alcona High School
Algonac High School - St. Clair RESA
All Saints Central High School
Allen Park High School
Allendale High School
Alma Senior High School
Ann Arbor Learning Community
Arenac Eastern High School
Armada High School
Athens Area High School
Au Gres-Sims High School
Avondale High School
Bad Axe High School
Baldwin Senior High School
Baraga Area High School
Bark River-Harris Jr./Sr. H.S.
Bay-Arenac Community H.S.
Belding High School
Bellaire High School
Benton Harbor High School
Berkley High School
Big Bay De Noc School
Birch Run High School
Black River Public School
Blissfield High School
Bloomfield Hills Andover H.S.
Boyne City High School
Boyne Falls Public School
Brandywine Senior High School
Breckenridge High School
Bridgeport High School
Bridgman High School
Brimley Jr./Sr. High
Bronson Jr./Sr. High School
Brown City High School

Buchanan High School
Buckley Community School
Buena Vista High School
Bullock Creek High School
Burr Oak High School
Burt Township School
Byron Center Charter School
Byron Center High School
Caledonia High School
Calvary Baptist Academy
Camden-Frontier High School
Canton Charter Academy
Carney-Nadeau School
Caro Community School
Carson City-Crystal H.S.
Caseville School
Cedar Springs High School
Cedarville High School
Central Lake High School
Centreville Senior High School
Charlotte Senior High School
Chassell K-12 School
Chatfield School
Cheboygan Area High School
Chelsea High School
Chesaning Union High School
Chippewa Hills High School
Clarkston High School
Clarkston Junior High School
Climax-Scotts Jr./Sr. High School
Coldwater High School
Columbia Central High School
Community High School
Comstock High School
Comstock Park High School
Concord Academy - Petoskey
Concord Academy Boyne
Constantine High School
Coopersville High School
Covert High School
Crossroads Charter Academy (7-12)
Da Vinci Institute (9-12)
Dansville High School
Davis Aerospace High School
Davisburg Elementary School
Dearborn High School
Decatur High School
DelaSalle Collegiate High School

Delton Kellogg High School
DeTour High School
Detroit Midtown Academy
Dewitt High School
Dexter High School
Divine Child High School
Doris Klaussen Dev. Center
Dowagiac Union High School
Dryden High School
Dwight D. Eisenhower H.S.
Early College Alliance
East Grand Rapids High School
East Jackson High School
East Kentwood High School
East Lansing High School
E. Washtenaw Multicultural Acad.
Eaton Rapids High School
Ecorse Alt. Ed - Hope Academy
Edsel Ford High School
Education Project for Homeless Use
Edwardsburg High School
Elk Rapids High
Ellsworth Community School
Engadine High School
Eton Academy
Everett High School
Ewen-Trout Creek Consolidated School District
Fair Plain Renaissance Middle School
Faithway Christian School

Farmington High School
Fennville Public High School
Fenton Senior High School
Ferndale High School
Forest Hills Central High School
Forest Hills Eastern High School
Forest Hills Northern High School
Forest Park School
Fowlerville High School
Fr. Gabriel Richard High School
Frankenmuth High School
Frankfort High School
Freedom Baptist High School
Freeland High School
Fremont High School
Fulton High School
Gabriel Richard Catholic H.S.
Galesburg Augusta High School
Garber High School
Gladstone Area High School
Glen Lake Secondary School
Godwin Heights High School
Grand Ledge High School
Grand Rapids Central H.S.
Grand Rapids City High School
Grand Traverse Academy
Grass Lake High School
Great Oaks Academy
Greyhound Central High School
Grosse Ile High School
Grosse Pointe North High School
Grosse Pointe South High School
Hamilton High School
Hancock Central High School
Harper Woods High School
Harrison Community High School
Hart High School
Hartford High School
Hartland High School
Haslett High School
Hemlock High School
Henry Ford Academy
Henry Ford II High School
Heritage High School
HH Dow High School
Highmeadow Common Campus
Hillsdale High School
Holly Elementary
Holly High School
Holt High School
Honey Creek Community School

Hopkins High School
Houghton High School
Houghton Lake Community Education
Houghton Lake High School
Howell High School
Hudson Area High School
Huron High School-Ann Arbor
Ida High School
International Academy of Flint
Ionia High School
Iron Mountain High School
Ishpeming High School
Jeffers High School
Jenison High School
Jewish Academy Metro Detroit
Johannesburg-Lewiston H.S.
John D. Pierce Middle School
John Glenn Senior High School
Kalamazoo Central High School
Kalamazoo Christian High School
Kelloggsville High School
Kenowa Hills High School
Kensington Woods High School
Kent Career Tech Center
Kent City High School
Kingsford High School
Kingsley Area High School
Kingston Jr./Sr. High School
Ladywood High School
Lake Linden Hubbell Jr./Sr. H.S.
Lakeshore High School
Lakeview High School - Calhoun
Lakeview High School - Macomb
Lakeview H.S. - Montcalm
L'Anse Creuse High School
L'Anse Creuse High School North
Lansing Catholic Central H.S.
Lansing Christian School
Lansing Eastern High School
Lapeer East Senior High School
LaSalle High School
Lawrence Jr./Sr. High
Lawton High School
Lawton Middle School
Lee High School
Lee M. Thurston Sr. High School
Leland Public School
Leon W. Hayes Middle School
Leslie High School
Lincoln Senior High School
Linden Grove Middle School

Litchfield High School
Lowell High School
Loy Norrix High School
Ludington High School
Luther L. Wright High School
Lutheran High School NW
Mackinac Island School
Madison Middle School
Malcolm High School
Malow Junior High School
Mancelona High School
Manchester High School
Manistee Catholic Central School
Manistee High School
Manistique Middle & H.S.
Maple Valley Jr./Sr. High School
Marian High School
Marlette High School
Marquette Senior High
Marshall High School
Martin High School
Mason County Central H.S.
Mason County Eastern Jr. High/H.S.
Mason High School - Ingham
Mattawan High School
McBain High School
Menominee High School
Merrill High School
Michigan Center Jr./Sr. H.S.
Michigan Lutheran High School
Michigan School for the Deaf
Midland Academy of Advanced/
Creative Studies
Midland High School
Mid-Peninsula School
Milan High School - MHS
Milford High School
Mill Creek Middle School
Millington Accelerated Learning Center
Millington High School
Mio-AuSable High School
Mona Shores High School
Monroe High School
Montabella High School
Morey Charter School
Morrice Area High School
Munising High and Middle School
Nah Tah Wahsh Public School Academy
New Buffalo High School
New Haven High School
Niles Senior High School

North Adams High School
North Central Area Jr./Sr. H.S.
North Dickinson School
North Farmington High School
North Huron Secondary School
North Muskegon High School
North Star Academy
Northport Public School
Northview High School
Northville High School
Northwest High School
Norway High School
Notre Dame Preparatory School
Novi High School
Oakland International Academy
Oakland Schools Technical
Campus - SW
Olivet High School
Onekama School Jr./Sr. School
Onsted High School
Ontonagon Area Jr./Sr. H.S.
Otsego High School
Our Lady of Sorrows School
Owendale-Gagetown Jr./Sr. H.S.
Oxford High School
Pattengill Middle School
Paw Paw High School
Peck High School
Pentwater Public School
Perry High School
Petoskey High School
Phoenix Alternative High School
Pinckney Community H.S.
Pioneer High School
Plainwell High School
Port Huron High School - St.
Clair RESA
Port Huron Northern HS - St.
Clair RESA
Portage Central High School
Portage Community High School
Portage Northern High School
Potterville High School
Prevail Academy
Quincy High School
Reading High School
Reeths-Puffer High School
Republic-Michigamme School
Reuther Middle School
Richmond Community H.S.
River Rouge High School

River Valley High School
Riverview Community H.S.
Robichaud Sr. High School
Rochester Adams Senior H.S.
Rochester Adult Education
Rochester High School
Roeper City & Country Middle &
Upper School
Rogers High School
Romeo High School
Roscommon High School
Sacred Heart Academy H.S.
Saginaw Arts & Sciences Academy
Saline High School
Sand Creek Jr./Sr. High School
Saranac High School
Sashabaw Middle School
Saugatuck High School
Sault Area Middle School
Sault Ste. Marie Area H.S.
Sawdon High School
Schoolcraft High School
Sexton High School
Shelby High School
Shepherd High School
Shrine Catholic High School
Skyline High School
Sodus Township School District #5
South Arbor Charter Academy
South Lake High School
South Lyon East High School
South Lyon High School
Southgate Anderson High School
Sparta Senior High School
Spring Lake High School
St. Charles Community H.S.
St. Clair High School - East China
St. Johns High School
St. Mary School
St. Mary's Assumption School
St. Philip Catholic Central
St. Thomas School
Starr Commonwealth for Boys
Stephenson High School
Sterling Heights Senior H.S.
Stockbridge High School
Stoney Creek High School
Sturgis High School
Summit Academy North H.S.
Superior Central School
Suttons Bay High School

Swan Valley High School
T.A. Wilson Academy
Tawas Area High School
Thornapple Kellogg High School
Three Rivers High School
Tinkham Alternative Education
Traverse City Central H.S.
Traverse City College Prep. Acad.
Traverse City West H.S.
Tri County Senior High School
Trillium Academy
Tri-Township School
Tri-Unity Christian High School
Troy High School
Ubly Community High School
Union City High School
Unionville-Sebewaing H.S.
Unity Christian School
University of Detroit Jesuit
University Preparatory Academy
(PSAD) H.S.
Utica High School
Van Buren Technology Center
Vanderbilt Area School
Vandercook Lake High School
Vestaburg Community H.S.
Vicksburg High School
Virtual Learning Academy of St.
Clair County
Wakefield-Marenisco School District
Waldron Area High School
Walled Lake Northern
Walled Lake Western
Watersmeet Township School
Watervliet Senior High School
Wayne Memorial High School
WayPoint Academy
Webberville High School
West Iron County High School
West Michigan Lutheran
H.S.West Ottawa High School
Western High School
Western Michigan Christian
H.S.Westwood High School
Whitefish Township School
Whitehall Senior High School
Whitmore Lake High School
Williamston High School
Willow Run High School
Wolverine Jr./Sr. School
Ypsilanti High School

Exhibit 2 2009-10 Online Course Titles Offered by the MVS to Michigan Schools

Math Courses	English Courses	Science Courses
Mathematics A (6th)	Reading A (6th)	Science (Comprehensive) A (6th)
Mathematics B (6th)	Reading B (6th)	Science (Comprehensive) B (6th)
Mathematics Advanced A (6th)	Language Arts A (6th)	Science (Comprehensive) Adv. A (6th)
Mathematics Advanced B (6th)	Language Arts B (6th)	Science (Comprehensive) Adv. B (6th)
Mathematics A (7th)	Language Arts Advanced A (6th)	Science (Comprehensive) A (7th)
Mathematics B (7th)	Language Arts Advanced B (6th)	Science (Comprehensive) B (7th)
Mathematics Advanced A (7th)	Language Arts A (7th)	Science (Comprehensive) Adv. A (7th)
Mathematics Advanced B (7th)	Language Arts B (7th)	Science (Comprehensive) Adv. B (7th)
Mathematics A (8th)	Language Arts Advanced A (7th)	Science (Comprehensive) A (8th)
Mathematics B (8th)	Language Arts Advanced B (7th)	Science (Comprehensive) B (8th)
Mathematics Advanced A (8th)	English 7A	Science (Comprehensive) Adv. A (8th)
Mathematics Advanced B (8th)	English 7B	Science (Comprehensive) Adv. B (8th)
Math Summer Camps (6th-8th)	Language Arts A (8th)	Science Summer Camps (6th-8th)
Math Skills A	Language Arts B (8th)	Astronomy (6th-8th)
Math Skills B	Language Arts Advanced A (8th)	Health Education A
Pre-Algebra A	Language Arts Advanced B (8th)	Health Education B
Pre-Algebra B	English 8A	Health Education MMC
Algebra 1A	English 8B	Health Ed MMC (Abstinence Only)
Algebra 1B	Read - Succeed (6th-8th)	Health Science A
Algebra 1A MMC	Composition (Beginning)	Health Science B
Algebra 1B MMC	Composition (Advanced)	Skills for Health
Algebra 1A MMC (Modularized)	English 9A	Astronomy
Algebra 1B MMC (Modularized)	English 9B	Human Space Exploration
Algebra 2A	English 9A MMC	Bioethics
Algebra 2B	English 9B MMC	Environmental Science A
Algebra 2A MMC	English 10A	Environmental Science B
Algebra 2B MMC	English 10B	Life Science A
Geometry A	English 10A MMC	Life Science B
Geometry B	English 10B MMC	Oceanography A
Geometry A MMC	English 11A	Oceanography B
Geometry B MMC	English 11B	Oceans & Their Ecosystems A
Trigonometry A	English 11A - American Literature A	Oceans & Their Ecosystems B
Trigonometry B	English 11B - American Literature B	Physical Science A
Pre-Calculus A	English 11A MMC – British Literature	Physical Science B
Pre-Calculus B	English 11B MMC – British Literature	Earth Science A
Calculus A	English 12A	Earth Science B
Calculus B	English 12B	Earth Science A MMC
Probability and Statistics A MMC	English 12A - British Literature A	Earth Science B MMC
Mathematics of Baseball	English 12B - British Literature B	Biology A
Mathematics of Personal Finance	English 12A MMC – Am. Literature	Biology B
Personal Finance A	English 12B MMC – Am. Literature	Biology A MMC
Personal Finance for Young Adults	World Literature	Biology B MMC
AP Calculus AB 1A	American Film Survey	Chemistry A
AP Calculus AB 1B	Directors of the Golden Age	Chemistry B
AP Calculus BC 1A	Journalism	Chemistry A MMC
AP Calculus BC 1B	Reading Strategies for the Digital Age	Chemistry B MMC
AP Statistics A	AP English Lang/Comp A	Physics 1A
AP Statistics B	AP English Lang/Comp B	Physics A MMC
	AP English Lit/Comp A	Physics B MMC
	AP English Lit/Comp B	Forensic Science (Introduction)

Science Courses (cont.)

Forensic Science (Advanced)
Anatomy & Physiology A
Anatomy & Physiology B
AP Biology A
AP Biology B
AP Environmental Science A
AP Environmental Science B
AP Chemistry A
AP Chemistry B
AP Physics B 1A
AP Physics B 1B

Social Studies Courses

World Cultures A (6th)
World Cultures B (6th)
World Cultures Advanced A (6th)
World Cultures Advanced B (6th)
World Geography A (7th)
World Geography B (7th)
World Geography Advanced A (7th)
World Geography Advanced B (7th)
American History A (8th)
American History B (8th)
American Government
American History 1A
American History 1B
American History A
American History B
U.S. History A (Conspiracy Code A)
U.S. History B (Conspiracy Code B)
American History 2A
American History 2B
Civics
Civics A
Civics B
Civics MMC
Economics
Economics A
Economics B
Economics MMC
Geography
Geography A
Geography B
Global Issues
Legal Issues
Native American History
Psychology A
Psychology B
Sociology
U.S. Government & Politics
U.S. History & Geography A MMC

Social Studies Courses (cont.)

U.S. History & Geography B MMC
U.S. Government A
U.S. Government B
World Civilizations A
World Civilizations B
World History A
World History B
World History & Geography A MMC
World History & Geography B MMC
AP Macroeconomics
AP Microeconomics
AP Psychology
AP U.S. Government & Politics
AP U.S. History A
AP U.S. History B

World Languages Courses

French 1A (6th-8th)
French 1B (6th-8th)
Spanish 1A (6th-8th)
Spanish 1B (6th-8th)
American Sign Language 1A
American Sign Language 1B
Chinese 1A - Mandarin
Chinese 1B - Mandarin
Chinese 2A - Mandarin
Chinese 2B - Mandarin
Chinese 3A - Mandarin
Chinese 3B - Mandarin
IB Chinese - Mandarin
French 1A
French 1B
French 2A
French 2B
French 3A
French 3B
French 4A
French 4B
German 1A
German 1B
German 2A
German 2B
German 3A
German 3B
German 4A
German 4B
Japanese 1A
Japanese 1B
Japanese 2A
Japanese 2B
Latin 1A

World Languages Courses (cont.)

Latin 1B
Latin 2A
Latin 2B
Latin 3A
Latin 3B
Spanish 1A
Spanish 1B
Spanish 2A
Spanish 2B
Spanish 3A
Spanish 3B
Spanish 4A
Spanish 4B
AP French A
AP French B
AP Spanish A
AP Spanish B

Other Elective Courses

Basic Software Applications (6th-8th)
Music Appreciation
Art Appreciation
Digital Photography
Basic Software Applications
C++ Programming A
C++ Programming B
Flash Animation
Game Design A
Microsoft Office 2007
Microsoft Office XP
Web Design Basics HTML
Career Planning
Careers - Find Your Future
Employability Skills
Study Skills
Business Ethics
Entrepreneur Business Management
Entrepreneur Business Planning
Personal Fitness
Online Scholar Research (OSCAR)
AP Art History A
AP Art History B
AP Computer Science A 1A
AP Computer Science A 1B

Exhibit 3 2009-10 MVS Summary of Courses, Enrollments and Completion Rates

Math Course Titles	Total N	Ave Comp %
Mathematics A (6th)	6	50.0%
Mathematics Adv A (6th)	4	50.0%
Mathematics Adv B (6th)	1	100.0%
Mathematics A (7th)	4	33.3%
Mathematics Adv A (7th)	1	100.0%
Mathematics Adv B (7th)	1	100.0%
Mathematics A (8th)	1	100.0%
Math Skills A	79	78.1%
Math Skills B	22	75.0%
Algebra (Pre-Algebra) A	13	81.8%
Algebra (Pre-Algebra) B	12	90.9%
Algebra 1A	41	60.0%
Algebra 1B	57	64.0%
Algebra 1A MMC	73	78.0%
Algebra 1B MMC	52	72.1%
Algebra 1A MMC (Modularized)	68	76.3%
Algebra 1B MMC (Modularized)	82	91.7%
Algebra 2A	58	84.0%
Algebra 2B	42	80.6%
Algebra 2A MMC	134	81.9%
Algebra 2B MMC	82	90.7%
Mathematics of Baseball	73	87.3%
Mathematics of Personal Finance	97	81.7%
Personal Finance for Young Adults	149	88.5%
Geometry A	53	52.4%
Geometry B	43	73.3%
Geometry A MMC	151	77.7%
Geometry B MMC	128	88.1%
Calculus (Pre-Calculus) A	63	54.1%
Calculus (Pre-Calculus) B	27	88.0%
Trigonometry A	42	85.7%
Trigonometry B	16	87.5%
Calculus A	54	86.8%
Calculus B	12	90.9%
Probability & Stats A MMC	6	83.3%
AP Calculus AB 1A	25	96.0%
AP Calculus AB 1B	21	66.7%
AP Calculus BC 1A	15	93.3%
AP Calculus BC 1B	18	100.0%
AP Statistics A	39	97.4%
AP Statistics B	38	97.4%

ELA Course Titles	Total N	Ave Comp %
Language Arts A (6th)	2	100.0%
Lang Arts Adv A (6th)	1	100.0%
Language Arts A (7th)	1	0.0%
Language Arts A (8th)	1	100.0%
Lang Arts Adv A (8th)	1	100.0%
Read - Succeed (6th-8th)	16	42.9%
Reading Strategies	37	93.8%
Composition (Beginning)	54	90.9%
Composition (Advanced)	24	81.0%
American Film Survey	127	75.4%
Directors of the Golden Age	33	96.9%
Journalism	28	85.2%
English 9A	31	59.1%
English 9B	25	93.3%
English 9A MMC	135	64.8%
English 9B MMC	85	67.7%
English 10A	25	72.2%
English 10B	16	62.5%
English 10A MMC	91	74.6%
English 10B MMC	68	63.5%
English 11A - Am Lit A	33	80.8%
English 11B - Am Lit B	18	81.3%
English 11A MMC - Brit Lit A	127	62.6%
English 11B MMC - Brit Lit B	85	74.6%
English 12A - Brit Lit A	41	94.4%
English 12B - Brit Lit B	24	100.0%
English 12A MMC - Am Lit A	106	88.4%
English 12B MMC - Am Lit B	51	73.2%
World Literature	45	92.1%
AP English Lang/Comp A	26	84.0%
AP English Lang/Comp B	15	86.7%
AP English Lit/Comp A	28	73.1%
AP English Lit/Comp B	20	73.7%

Science Course Titles	Total N	Ave Comp %
Astronomy (6th-8th)	19	47.1%
Science (Comp) A (6th)	2	100.0%
Science (Comp) A (7th)	2	50.0%
Science (Comp) B (7th)	1	100.0%
Health Ed MMC (Abstinence)	39	89.2%
Health Education A	133	96.0%
Health Education A	3	100.0%
Health Education B	61	98.3%
Health Education MMC	149	74.0%
Skills for Health	2	100.0%
Biology A	51	64.9%
Biology B	28	79.2%
Biology A MMC	109	76.5%
Biology B MMC	80	84.7%
Bioethics	102	88.5%
Earth Science A	72	69.0%
Earth Science B	42	78.9%
Earth Science A MMC	61	75.0%
Earth Science B MMC	26	87.0%
Astronomy	199	89.5%
Human Space Exploration	39	97.1%
Environmental Science A	35	87.9%
Environmental Science B	8	71.4%
Oceanography A	121	91.1%
Oceanography B	23	82.6%
Oceans & Their Ecosystems A	33	85.7%
Oceans & Their Ecosystems B	8	100.0%
Physical Science A	31	47.8%
Physical Science B	15	69.2%
Forensic Science (Intro)	288	83.5%
Forensic Science (Advanced)	38	94.6%
Chemistry A	41	55.6%
Chemistry B	27	92.3%
Chemistry A MMC	83	73.5%
Chemistry B MMC	42	76.3%
Physics A MMC	78	89.2%
Physics B MMC	37	88.9%
Anatomy & Physiology A	170	87.9%
Anatomy & Physiology B	78	93.6%
AP Biology A	30	78.6%
AP Biology B	19	77.8%
AP Chemistry A	21	52.4%
AP Chemistry B	10	66.7%
AP Environmental Science A	18	94.4%
AP Environmental Science B	14	92.9%
AP Physics B 1A	38	97.2%
AP Physics B 1B	33	100.0%

Social Studies Course Titles	Total N	Ave Comp %
World Cultures Adv A (6th)	1	100.0%
World Geography Adv A (7th)	1	0.0%
American History A (8th)	1	100.0%
American History B (8th)	1	100.0%
American Government	127	74.5%
American History A	51	83.3%
American History B	37	96.8%
U.S. History A (Conspiracy Code)	1	100.0%
U.S. History & Geog A MMC	141	81.4%
U.S. History & Geog B MMC	73	86.0%
Native American History	65	96.7%
Geography	47	82.5%
Civics	31	86.7%
Civics MMC	173	91.1%
Legal Issues	97	70.8%
Economics	60	86.8%
Economics MMC	214	92.5%
Psychology A	207	90.9%
Psychology B	65	90.0%
Sociology	161	85.1%
Global Issues	83	77.2%
World Civilizations A	62	91.5%
World Civilizations B	17	86.7%
World History & Geog A MMC	140	79.6%
World History & Geog B MMC	88	78.2%
AP Macroeconomics	51	94.1%
AP Microeconomics	39	89.7%
AP Psychology	173	89.3%
AP U.S. Gov/Politics	43	88.4%
AP U.S. History A	47	86.7%
AP U.S. History B	36	77.8%

World Language Course Titles	Total N	Ave Comp %
French 1A (6th-8th)	3	66.7%
French 1B (6th-8th)	1	100.0%
Spanish 1A (6th-8th)	1	100.0%
Spanish 1B (6th-8th)	1	100.0%
American Sign Lang 1A	67	95.4%
American Sign Lang 1B	21	100.0%
Chinese 1A - Mandarin	51	94.0%
Chinese 1B - Mandarin	49	81.3%
Chinese 2A - Mandarin	19	83.3%
Chinese 2B - Mandarin	18	100.0%
Chinese 3A - Mandarin	22	100.0%
Chinese 3B - Mandarin	6	100.0%
French 1A	188	87.4%
French 1B	109	89.8%
French 2A	79	76.9%
French 2B	62	96.6%
French 3A	25	70.8%
French 3B	18	93.8%
French 4A	19	88.2%
French 4B	5	100.0%
German 1A	196	80.4%
German 1B	109	86.7%
German 2A	54	92.5%
German 2B	40	81.6%
German 3A	10	80.0%
German 3B	4	100.0%
German 4A	4	25.0%
German 4B	1	100.0%
Japanese 1A	125	78.3%
Japanese 1B	60	89.8%
Japanese 2A	25	80.0%
Japanese 2B	14	85.7%
Latin 1A	141	84.8%
Latin 1B	51	92.2%
Latin 2A	11	100.0%
Latin 2B	14	84.6%
Latin 3A	9	66.7%
Latin 3B	4	75.0%
Spanish 1A	147	85.0%
Spanish 1B	80	93.5%
Spanish 2A	79	94.8%
Spanish 2B	70	95.6%
Spanish 3A	73	88.4%
Spanish 3B	60	89.7%
Spanish 4A	13	45.5%
Spanish 4B	2	0.0%
AP French A	13	83.3%
AP French B	12	70.0%
AP Spanish A	26	84.6%
AP Spanish B	10	90.0%

Other Elective Course Titles	Total N	Ave Comp %
Music Appreciation	151	92.4%
Art Appreciation	95	85.1%
Digital Photography	341	84.9%
Basic Software Apps (6th-8th)	4	100.0%
Basic Software Apps	53	93.5%
C++ Programming A	90	78.2%
C++ Programming B	28	85.7%
Flash Animation	63	76.7%
Game Design A	82	84.4%
Microsoft Office 2007	26	88.9%
Microsoft Office XP	8	71.4%
Web Design Basics HTML	108	89.1%
Career Planning	221	78.9%
Careers - Find Your Future	67	83.6%
Employability Skills	188	88.6%
Study Skills	268	89.2%
Business Ethics	129	87.6%
Entrepreneur Business Mgt	117	94.3%
Entrepreneur Business Plan	71	74.3%
Personal Fitness	105	64.9%
Online Scholar Research (OSCAR)	2	100.0%
AP Art History A	10	80.0%
AP Art History B	10	70.0%
AP Computer Science A 1A	24	90.9%
AP Computer Science A 1B	12	100.0%

Exhibit 4 Summary of Grant Expenditures

MICHIGAN VIRTUAL UNIVERSITY
Title IIA, Teacher Quality Grant (in support of *Michigan LearnPort*)
Expenditures from October 1, 2009 - September 30, 2010

Software Customization	$188,382.91
Web hosting and Technical Support	52,449.17
Equipment Expenditures	28,313.00
Content Development Consultants	9,468.36
Licensing Expenditures	276,477.90
Instructor Consultants	64,900.00
Teacher Stipends	34,800.00
Media Asset Development	1,716.68
Communication and Outreach	52,008.56
Mi Champions Sponsorship	166,000.00
Algebra for All	376,975.10
Salaries and Benefits	618,088.54
Administration	171,431.32
TOTAL	**$2,041,011.54[1]**

All Title IIA expenditures approved by MDE through a cooperative agreement.

Title IID, Education Technology Grant (in support of *Michigan Virtual School*)
Expenditures from October 1, 2009 - September 30, 2010

High School Course Scholarship Support	$ 705,799.95
Improvement of Instruction: Staff and Instructor Training	106,730.78
Professional Development Infrastructure	66,150.41
Researcher Fees and Related Exp.	31,129.00
E-Learning Consortium Related Project Staff Costs	3,068.57
SUBTOTAL	**912,878.71**
INDIRECT COSTS:	
Ingham ISD Indirect Portion	65,421.00
Ingham ISD Professional Development Portion	50,000.00
TOTAL	**$1,028,299.71[2]**

[1] Total includes $958,961 of Title IIA carryover from the 2008-09 grant.

[2] Total includes $63,733 of Title IID carryover from the 2008-09 grant.

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