Report to the Michigan Department of Education on the Development and Growth of the Michigan Virtual High School 1999-2005





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Michigan Virtual University 3101 Technology Parkway, Suite G Lansing, MI 49810

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Michigan Virtual University Mission Statement

Provide leadership in Michigan to increase student and educator access to diverse technology-based educational tools and resources that promote 21st Century learning skill for the general benefit of the K-12 community.

Michigan Virtual University Vision Statement

Michigan Virtual University, working in partnership with Michigan schools, is committed to providing cost-effective technology-based solutions that strengthen teaching and learning.

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Introduction

This report has been prepared at the request of the Michigan Department of Education (MDE) and it provides background information on the development and growth of the Michigan Virtual High School (MVHS). It also discusses several new challenges and priorities for the MVHS. Public Act 230 of 2000 authorized implementation of the MVHS. Since its inception, the MVHS has served more than 20,000 students with an online semester-length course and more than 125,000 students with an online MEAP, ACT, SAT or PSAT review tool. During 2003-04, MVHS provided online courses to almost 7,000 students in nearly 400 high schools in Michigan. The reorganized Michigan Virtual University (MVU) operates the MVHS, the nation's second largest virtual high school. MVU also operates an online career development service for schools and a new Web-based teacher professional development system for educators in partnership with the MDE.

A Catalyst for Change

As a catalyst for change, MVU has successfully leveraged the power of the Internet to accelerate fundamental change in public education to promote 21st Century learning skills for students and educators. The MVHS is a collaborative effort involving state policy leaders, K-12 schools, representatives of key statewide professional education organizations, and individuals from higher education, business, industry, labor and the nonprofit sectors. In 2001 a broadly representative 25 member Advisory Council was established to provide guidance on the operation of the MVHS (see Appendix A). The MVHS does not grant course credit or award diplomas independently, but works in partnership with local and intermediate school districts which award credit or diplomas. The current catalog of MVHS products and services includes online courses, classroom resources, and professional development programs.

Consistent with Public Act 230 of 2000, the goals of the MVHS are:

- Expand curricular offerings for high schools across the state;
- Provide students with opportunities to develop new skills and competencies;
- Provide opportunities for teachers to learn new skills and strategies;
- Serve as a model for the use of interactive multimedia tools;
- Accelerate the state's ability to respond to current and emerging educational demands;
- Offer courses and services to both traditional and nontraditional audiences; and
- Offer college level equivalent courses and at-risk programs and services.

Role and Mission of MVHS

It is the vision of MVU and MVHS to provide leadership in Michigan to increase student and educator access to diverse technology-based educational tools and resources that promote 21st Century learning skills for the general benefit of the K-12 community. The mission of the organization, working in partnership with Michigan schools, is the commitment to provide cost-effective technology-based solutions that strengthen teaching and learning.

In pursuit of this vision and mission, the MVHS has positioned itself since 2000 as a supplemental resource for rural, urban and suburban high schools throughout Michigan. Based on input received from educators and school administrators the MVHS has also explored opportunities to serve students in grades 6-8 with age-appropriate distributed learning programs and services. While an interest in serving middle school students continues, over the past five years the MVHS has specifically targeted the following groups of students for online courses and resources:

- All public and private students in grades 9-12;
- Students who are being schooled at home;
- Adjudicated youth enrolled in institutional facility programs;
- Expelled and homebound students receiving supervised instructional support;
- Students from special populations including those with learning disabilities; and
- Gifted and talented students.

Figure 1 provides a summary of the online courses, student enrollments, school buildings and districts served, and online instructors trained since the MVHS was launched. Since 1999-00, more than 450 urban, suburban or rural school districts have used one or more of the MVHS courses and/or online tools.

Number of	99-00	00-01	01-02	02-03	03-04	04-05 ^b	Total
Schools Served ^a	18	101	194	281	385	345	711 ^c
Districts Served	18	95	179	221	242	263	453 ^c
Enrollments	100	676	2303	5299	6805	5277	20,460
Unique Course Offerings	6	17	27	128	142	141	167 ^c
Test Preparation Users	0	7657	9513	21,337	37,513	49,541	125,561
Online Instructors Enrolled	0	81	87	87	100	21	376

MVHS Courses and Online Enrollments: 1999-2005

a.) represents public schools, nonpublic schools, home schools and public school academies inside and outside of Michigan

b.) does not include Summer School enrollment due to the date of this report

c.) unduplicated counts

Figure 2 provides a map of the state, indicating the approximate locations of the high schools that were utilizing MVHS courses and services during 2003-04. As this map indicates, the MVHS serves Michigan's urban core areas as well as its rural sparsely populated regions. Appendix B provides a listing of the schools served by the MVHS from 1999 – 2005.



Figure 2 Map of Participating MVHS School Buildings (2003-04)

Each participating school provides an onsite mentor who serves as a coach or facilitator for online students. In addition to providing online courses for students enrolled in public and nonpublic schools, the MVHS also provides courses for Michigan's home schooled students. Since 2002-03 the MVHS has served over 134 different home schools. In the home school setting, the parent or guardian serves as the onsite mentor for the MVHS student.

During the 2004-05 school year the MVHS entered into a pilot program as an online course provider to the United Star Distance Learning Consortium (USDLC), a multi-state nonprofit educational consortium. The USDLC has been a distance learning provider since 1985 and currently offers courses in computer science, language arts, mathematics, science, social studies, workforce and life skills, and world languages to its member schools.

As the MVHS has grown, the organization has been approached by international schools and education leaders from other countries to determine interest in providing online courses and products to foreign students or to develop partnerships. The priority for MVU and MVHS is to first serve Michigan students and educators. That being said, the MVHS is interested in developing online collaborative relationships with international schools and educators from other countries that will directly benefit Michigan students and schools. Developing cooperative foreign language programs, teacher-to-teacher links, or student-to-student projects that will better prepare Michigan students to participate in the global economy are possibilities for the MVHS in the future.

Current MVHS Courses and Instructional Resources

The MVHS provides a variety of online course formats and services for Michigan's K-12 community. Below is a brief description of the current MVHS online services. Appendix C provides a list of current MVHS courses.

- MVHS Advanced Placement Courses The MVHS Advanced Placement courses offer college-level instruction to high achieving students. These courses include tutorials, multimedia simulations and online discussions. An AP Exam Review is included with all AP courses.
- MVHS Flex 90 Courses The MVHS Flex 90 courses are student-paced courses that offer learners a fast, flexible way to pick up an elective or required class and even recover credit. Instructors in these courses set pacing guidelines for completing assignments, but due dates are flexible. Instructors encourage students, monitor their progress, grade coursework and are available to students to answer questions and provide guidance.
- 3. *MVHS Semester Paced Courses* The MVHS Semester Paced courses follow the traditional semester schedule. Teachers in these courses set the pace and establish due dates for assignments, quizzes and tests. Students have the opportunity to participate in collaborative group projects.
- 4. MVHS Student Direct Instruction Student Direct instruction offers a low cost option for schools seeking to provide their students with a high quality experience combined with ease in scheduling and a self-paced approach. The interactive instruction is provided completely by the course software that also supplies students with tools such as calculators and dictionaries. Schools enrolling students in this online course format provide instructional support.
- 5. *MVHS Summer School* The MVHS Summer School is designed to fill an important need for Michigan schools by offering a cost-effective alternative for students wishing to extend and enrich their learning, or to make up a credit. The flexible enrollment option allows schools to enroll students at various times in the summer.
- 6. *MVHS Test Tools* The MVHS test preparation tools are a combined set of online resources that help students prepare for the Michigan Educational Assessment Program (MEAP) tests and the PSAT, SAT and ACT college entrance exams commonly taken by college bound students.
- 7. Online Instructor Training The MVHS began to train Michigan teachers in 2001 as a way to support the implementation and integration of the virtual high school concept into Michigan's existing schools. All certified teachers in Michigan are eligible to participate in the MVHS Online Instructor Training Program, with a primary focus initially on the secondary level. To date, the MVHS has trained nearly 400 K-12 educators.

Overview of MVHS Revenue and Expenditures

For the first two years of operation the MVHS provided all online products and services to Michigan's K-12 community at no cost. This included Advanced Placement (AP) courses, online AP Teacher Class Tools and AP Exam Review materials. The decision to fully subsidize and not charge Michigan schools for MVHS courses and online services was made with the intent of creating exposure to "any time, anyplace learning," and to stimulate interest and use of high quality e-learning materials. The catalog of MVHS online products and services continued to expand with the addition of Flex 90 Courses, Semester Paced Courses, and Test Tools.

For the 2002-03 school year, the MVHS continued to offer a highly subsidized subscription program but introduced a tiered pricing model for participating schools, based on the district's total student enrollment. For example, larger school districts (Class A and B) paid a higher MVHS subscription fee than smaller districts (Class C and D). This enrollment based subscription program for online courses and services was introduced as a strategy to help offset the dependency for ongoing state funding.

The subscription model was continued during 2003-04 with some adjustments made to the number of "seats" available per district. For the 2004-05 school year, reductions in state funding for the MVHS made it necessary to reduce the amount of the subsidy provided by MVHS to member schools. A new "per enrollment" pricing model has been implemented with unit pricing developed for MVHS courses and products. Typically the MVHS charges participating schools a fee of \$250 to \$350 per online course. The revenue generated from these fees has not covered the total cost of delivering an online course. Ongoing state and federal appropriations will be required if Michigan is to maintain a national leadership position in providing high quality online instructional services for Michigan students. It is unlikely that the MVHS can successfully operate exclusively with revenue generated from the sale of online courses and services to schools in Michigan. A blended funding approach that relies on sales revenue and grant support appears to be the most practical and effective long-term strategy for sustainability.

Figure 3 provides a summary of the annual State School Aid Act appropriations received by MVU from 2001-05 to support the operation of the MVHS. State funding for the MVHS first became available in October 2000. Figure 3 includes a summary of the expenses incurred in the day-to-day administration and operation of the MVHS, including instructional support, product development and course design, course licensing fees and infrastructure maintenance and security. An analysis of MVHS expenditures and enrollments reveals that MVHS has expended an average of \$154 for every student served with an online course or instructional service. The MVHS is committed to maintaining a cost-effective state supported online learning environment for Michigan's K-12 community.

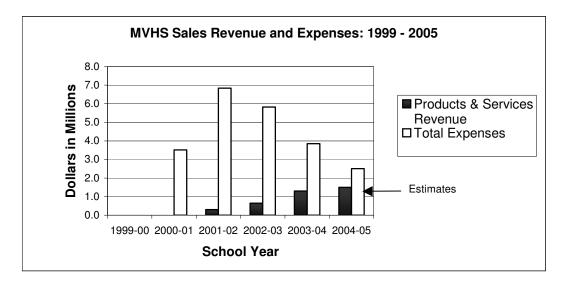
State School Aid Act Appropriations: 2000 – 2005					
	2000-01	2001-02	2002-03	2003-04	2004-05 Estimated
Grant Revenue	\$ 15,000,000	\$ 2,091,970 ^a	\$ 1,754,716 ^a	\$ 741,500	\$ 750,000
Expenses					
Salaries & Benefits	450,777	965,110	1,112,632	862,656	625,465
Administrative Services	717,509	1,744,538	1,912,344	850,159	803,058
Professional Development Services	139,804	131,549	81,120	45,666	46,970
Product Development	456,445	252,147	150,950	81,680	75,000
Course & Content Licensing	1,264,600	3,166,567	1,124,436	1,088,472	556,553
Instructors & Materials	115,910	218,596	659,395	376,063	305,100
Technology Infrastructure	242,314	258,067	776,882	545,071	95,663
Web Site Development	129,046	101,274	1,000	3,500	-
Total Expenses	\$ 3,516,404	\$ 6,837,849	\$ 5,818,759	\$ 3,853,268	\$ 2,507,809

Figure 3 MVHS State School Aid Appropriations – FY 2000-05

a.) These amounts include funds from a federal Advanced Placement Incentive Program grant that provided access to online AP courses for economically disadvantaged students (2001-02, \$ 591,970 and 2002-03, \$ 310,000).

Figure 4 provides a summary of the MVHS expenditures and sales revenue generated from MVHS products and services for the period 1999-2005. In 2003-04, MVHS generated approximately \$1.3 million in products, sales and services to schools. It is estimated that sales revenue for the 2004-05 school year will be approximately \$1.5 million. Revenue generated from MVHS products and service sales has helped to reduce MVU's dependency on state and federal funding. MVU is not aware of any statewide virtual learning schools that successfully operate without significant supplemental support from state and/or federal sources.

Figure 4 MVHS Revenue and Expenditures – FY 1999-2005



Cost Factors of E-Learning

During 2003-04, MVHS served nearly 7,000 students with online semester-length courses. The capacity of MVHS to serve students and educators is tied to four major cost factors:

- **Technical Infrastructure** A highly reliable and cost effective infrastructure is essential to running a statewide education project that delivers services via the Web. MVU owns and hosts its own enterprise servers in a commercial data center in Lansing, with physical and data security, high availability, fault tolerance, and unlimited bandwidth capacity. The data center has triple Internet backbone providers (three independent routes to the Internet), and receives its power from two different electrical grids, as well as having emergency battery backup and diesel generators in cases of power grid disruption or disaster. MVU's IT infrastructure is architected to allow capacity building without disrupting services to existing students; however, some upgrades to the MVHS servers are necessary to enhance or replace servers that are now four years old and have reached the end of their product life cycle. MVU possesses significant technical capacity and capabilities and is well poised to continue to provide reliable and always available online courses and services to our students and schools.
- Online Course Content Content for MVHS classes is critical and serves as the equivalent to a textbook for a traditional face-to-face course. MVHS has developed several of its own online courses and some of the content is licensed for a fee through other public and private sources. The creation and ownership of additional online courses would allow MVU to reduce its dependency on and costs to license courseware from others, which can be as high as \$50 to \$100 per course.
- Online Instructors Highly qualified instructors teach the online courses for MVHS. Currently, nearly 400 certified Michigan educators have been trained to teach MVHS courses. At any one time, MVU usually employs approximately 60 instructors to teach one or more online courses. This is an area in which MVU has excess capacity. MVU pays its online instructors a fee for teaching an online course and the amount of compensation is based on the number of students enrolled and course completion rates. The average teacher cost per online student enrollment is approximately \$100.
- General Administration The MVU incurs costs in managing operational activities of the organization, including leadership, general management, accounting, finance, office space, marketing, sales, instructional support, and help desk services. MVU has reduced its personnel count from 60 FTEs to less than 25, and reduced its total annual salary by 59 percent.

Funding Models for E-learning

The growth of e-learning at the K-12 level is very promising. However, no state, region or local school district in the U.S. is currently assisting all or a large percentage of their students to become successful online learners as a targeted workforce development strategy. Typically, schools offering e-learning services provide instructional support for a limited number of

students. It is anticipated that this trend will change during the next three to five years and it will become common for Michigan high schools to require students to take at least one online course during their high school career as a strategy to develop practical 21st Century learning skills.

Of the estimated 15 state supported virtual schools in the U.S., it appears that only two have been able to scale e-learning programs to serve thousands of students in a single year. Michigan and Florida both operate large statewide virtual high schools but use different funding models. The Florida Virtual High School (FVHS) is eligible to capture a portion of the student foundation grant for every student served with an online course. The MVHS charges participating schools a fee of \$250 to \$350 per online course and also receives an annual appropriation from the state for general operations. In Michigan, local school personnel make all decisions on specific MVHS student enrollments, and in Florida, the students and parents often make decisions on enrollments. The MVHS has worked very hard to develop partnerships with local high schools that complement and support individual student needs while avoiding competition with the K-12 community.

Productivity Improvement Through E-Learning

The Center on Education Policy notes in a recent report that "virtual schools are calling into question longstanding ideas about the definition of a public school, the social goals of public education, and local control of public education" (*Preserving Principles of Public Education in an Online World*, Center on Education Policy, Washington, DC, November 2002). Michigan high schools are working hard to respond to state and national polices that require greater academic rigor without dramatic increases in funding. The MVHS is uniquely positioned to assist Michigan's educators in cost-effective ways by supplementing the efforts of local educators. For example, when the MVHS began in 2000, nearly 45 percent of all Michigan high schools did not offer a single Advanced Placement (AP) course. Today, almost 4,000 Michigan high school students have taken an online AP course and performed as well as students who took traditional face-to-face AP courses on the College Board exams. The advantage of this strategy is that it allows all Michigan high schools to help students capable of AP study without diverting resources that are required elsewhere.

As greater numbers of students participate in online courses and services offered by MVHS and other providers, new value propositions and economies of scale in public education are being tested as alternative delivery options are introduced into the instructional process. The MVHS enables Michigan's high schools to leverage new educational options while preserving proven methods and school autonomy. The MVHS can play a key role in an emerging statewide strategy to create opportunities for productive innovation without sacrificing core functions in the schools. This is an important part of Michigan's efforts to cope with budget problems while meeting changing expectations for schools, and providing comprehensive instructional programs for students.

New Policy Challenges and Expectations

Declining enrollment in rural sparsely populated high schools has forced the elimination of several low enrollment classes or the reassignment of teachers from low demand courses.

School districts are now seeking MVHS online courses and services that address unique local needs such as classes for individual high achieving students, targeted math, science and technology curriculum support, and courses for at-risk students and students with special needs. The federal No Child Left Behind (NCLB) legislation requires all schools by 2006 to assure that 100 percent of Michigan teachers are "highly qualified." Schools without certified and highly qualified teachers in core curriculum content areas may be sanctioned by the MDE. The MVHS is committed to working with the MDE and Michigan's educators to provide cost-effective technology based strategies, including online supplemental services, to enhance teaching and learning in Michigan's schools. Expanding online educational opportunities for Michigan's K-12 students, teachers and administrators continues to be a priority of MVHS.

MVU's leaders reaffirmed their commitment to help Michigan's K-12 community meet the demand for innovative educational solutions in a February 2003 presentation to the State Board of Education (SBE). The MDE and MVHS are currently involved in a partnership to evaluate an innovative online writing assessment scoring tool developed by Education Testing Service (ETS). A pilot project will be conducted in spring 2005 involving several Michigan school districts to determine the utility of this computerized writing assessment system.

In 2004, Governor Granholm created the Commission on Higher Education and Economic Growth, chaired by Lieutenant Governor John D. Cherry. This broadly representative Commission was charged with the task of developing a plan to double the number of Michigan residents who obtain college degrees and other valuable credentials. In early December, the Commission issued its report that contained 19 core recommendations. Two key recommendations in the report called for changes related to Michigan's high schools that are particularly relevant to the work of MVU and MVHS.

• Set High Expectations for High School Students Through Rigorous Standards and Curriculum

"All students today must be equipped with rigorous academic preparation and high performance job skills. The long tradition of sorting students into 'college bound' versus 'non-college bound' tracks is no longer relevant."

"The State Board of Education should develop by the 2006-2007 school year rigorous high school standards that reflect the competencies necessary for postsecondary success and readiness for the world of work, and that school districts require all students to take courses that will allow them to achieve these new standards and, by extension, postsecondary success."

• Implement New Strategies for High School Success

"Before the decade is over, Michigan's government, business, education, and civic leadership must put in place a network of newly fashioned secondary schools and learning environments. This effort must be on the scale sufficient to serve every school community where students are dropping out in large numbers or are not achieving Michigan's high expectations for learning. Refashioned high school environments must be formed around research-based models that engage and motivate students."

On February 10, 2005, Governor Granholm presented her Executive Budget recommendations to the Michigan Legislature for the 2006 Fiscal Year. In addition to calling for continued financial support for MVU, the Governor recommended the following amendment to the State School Aid Act:

"... The Michigan Virtual High School shall develop options for providing the Michigan scholar curriculum identified in the Lieutenant Governor's Commission on Higher Education and Economic Growth report issued in December 2004."

At the national level, in January 2005, the U.S. Department of Education published the new National Education Technology Plan that includes seven major recommendations. Recommendation #4 is to *Support E-Learning and Virtual Schools*. Strategies under this core recommendation include the following items:

- *Provide every student access to e-learning.*
- Enable every teacher to participate in e-learning training.
- Encourage the use of e-learning options to meet No Child Left Behind requirements for highly qualified teachers, supplemental services and parental choice.
- Explore creative ways to fund e-learning opportunities.
- Develop quality measures and accreditation standards for e-learning that mirror those required for course credit.

According to the National Education Technology Plan, "Educators must embrace e-learning solutions if they want to ensure that every student has a quality educational experience. But before e-learning can achieve widespread acceptance in public schools, educators and policy makers must expand their notion of education to include online courses and digital materials used to enhance classroom instruction." The plan also notes that "districts that truly suffer from lack of capacity and supply may find that virtual schools are a viable solution for meeting the choice requirements of No Child Left Behind (NCLB)."

These policy initiatives highlight the strong connection between the current work of MVU and MVHS, and the desire of policy leaders at all levels to exploit the power of the Internet to improve teaching and learning, and expand instructional opportunities for all students.

Market Analysis

Currently the MVHS sells online services to a large percentage of Michigan's public and private high schools. Since the launch of the MVHS, interest in online learning in K-12 schools has grown significantly. According to the U.S. Department of Education, "over the past five years there has been an explosive growth in online and multimedia instruction (e-learning) and virtual schools" (Toward a New Golden Age in American Education, National Education Technology Plan, U.S. Department of Education, Washington DC, 2004).

At least 15 states now provide some form of state supported virtual schooling to supplement regular classes or provide for special needs. These states include Florida, Illinois, Kentucky, Michigan, Colorado, West Virginia, Indiana, Wisconsin, Alaska, Maryland, Massachusetts, California, Hawaii, Arkansas and Georgia. In addition, several large urban and regional school districts have established virtual schools. A September 2003 report published by Boston-based Eduventures notes that nationwide "nearly 300,000 students participated in a virtual learning program in the 2002-03 school year; this figure includes students in fully online school environments and students in brick-and-mortar educational institutions who have enrolled in online courses to supplement their traditional classroom-based courses." The report estimates that approximately 15 percent - or 3,300 - of U.S. public high schools currently offer at least one online course (*What Can Virtual Learning Do for Your School*, Eduventures, Boston, September 2003).

An informal analysis of the MVHS target market has identified the following barriers or competitive pressures related to achieving increased school customers.

- Low-cost correspondence courses such as those available from the American School;
- Online courses available from E2020 Inc., Aventa Learning, Keystone National High School, Class.com and other for-profit companies;
- Online courses available from Indiana University, Brigham Young University and a limited number of other colleges and universities that target the K-12 market;
- Customized solutions currently available to students such as alternative high schools;
- Concern over the potential loss of teaching positions in school districts due to online instruction;
- Self-paced online instructional solutions that are "teacher-less" such as Plato and NovaNet;
- School personnel resistance to use online instructional solutions from any provider;
- District budget constraints and perceived high prices for MVHS courses; and
- Concerns that the MVHS is not accredited.

The MVHS has enjoyed success, in large part, because of the perceived value propositions that it offers K-12 customers. These include the following:

- Reputation for employing qualified and certified Michigan educators as online MVHS instructors;
- Implied endorsement from the State of Michigan as a quality source for e-learning solutions;
- Excellent technical helpdesk support available for students and educators available 7x24;
- Demonstrated staying power with continuous operational improvements each year;
- Flexible starting time of the online courses;
- Stable and secure technology hosting environment;
- High quality online curriculum content;
- Elimination of traditional textbook purchases by schools; and
- Statewide, regionally deployed ambassadors who provide support and assistance to schools.

Evaluation and Accreditation

One of the priorities for the MVHS during 2004-05 is to become formally accredited by the leading national and regional K-12 education accreditation organization. The MVHS has begun the process to seek accreditation from the Commission on International and Trans-Regional Accreditation (CITA). CITA is affiliated with the North Central Association of Colleges and Schools and is the internationally recognized group that coordinates the review process for distance education schools. Becoming an accredited school is a multi-year process and involves a comprehensive program evaluation and site visitations from a CITA review panel. Earning CITA accreditation will assist the MVHS in responding to customer questions about course quality, program expectations and outcomes, alignment with standards, institutional capacity and business practices.

At the national level, educational researchers continue to evaluate the differences between traditional face-to-face instruction and online instruction. Research into the impact of online instruction on the academic achievement of students, and the levels of student engagement will provide valuable information for both educators and policy makers. Over the past three to five years, most statewide virtual high schools in the U.S. have spent considerable time and effort in developing new online delivery strategies. As a founding member of the North American Council of Online Learning (NACOL), MVHS is working with the K-12 virtual learning community to develop effective evaluation strategies that generate data that can be used to improve teaching and learning. The MVHS is actively seeking additional grant funds to expand its evaluation activities.

In November 2004, the North Central Regional Educational Laboratory awarded MVU almost \$60,000 to study the effectiveness of MVHS online courses. Using data from MVHS courses completed through June 2005, researchers will analyze variation in student achievement, attrition, and attitudes that contribute to learning with today's technology. Results from the study will be valuable for use in continuous quality improvement efforts and in predicting student success, as well as for helping the school community decide the extent to which online learning should be integrated into their curricula. Dr. Patrick Dickson, Professor of Educational Psychology in the College of Education at Michigan State University, is leading this research project.

Examples of Innovative MVHS Partnerships

The MVHS has been working collaboratively with several local and intermediate school districts (ISDs) to integrate online learning into the traditional curriculum. One example of an innovative MVHS partnership is with the Dearborn Public Schools, which in 2002 launched the Dearborn Virtual Academy (DVA) within Fordson High School as an alternative education program. This "high school within a high school" demonstrates how online learning and teaching can be successfully integrated into an alternative educational pathway for students. To date, 160 Dearborn students have enrolled in the DVA. The DVA program has six distinct components:

- 1. Students take two online courses;
- 2. Students take two electives at Fordson High School or their 'base' school;
- 3. Students take two high school completion courses;

- 4. Students must be involved in some form of community service;
- 5. Approved work experience; and
- 6. Independent Study (after successful completion of a semester of work).

Another example of a MVHS strategic partnership involves the seven ISDs in the Upper Peninsula. Through a formal agreement signed in 2004, the Upper Peninsula ISD Consortia members are receiving a cost effective volume pricing opportunity for their constituent schools, and enhanced communication, technical assistance and support. This arrangement allows high schools in the region to acquire online courses and services that meet the educational needs of students in rural sparsely populated school districts.

A third partnership example involves Schoolcraft High School, located in southwest Michigan. This small Class C, grade 9-12 high school enrolls 388 students and was challenged to meet the needs of both high achieving students and those with remedial needs. The Schoolcraft Community Schools were facing financial difficulties and the high school had no program for students who were falling behind. There was also concern that several students might be in danger of not graduating due to the limited number of elective courses offered. The Schoolcraft High School partnership with the MVHS was initially developed to support seniors who were behind in required credits. The partnership has expanded to the point where the school has adopted a course schedule that offers five class periods per day for students to take MVHS courses. In 2003-04 a total of 66 students enrolled in MVHS courses (47 Flex 90, six AP, and 13 semester paced courses). In 2004-05, this number increased to 95 students (66 Flex 90, 11 AP, and 18 semester paced courses). The advantages of this partnership with MVHS to the students and community include:

- More math, English and science classes than the school could offer on its own;
- Greater variety of courses than a Class C school could typically offer;
- The number of students taking challenging AP courses has doubled;
- The ability to offer a more complete, varied course selection has positively changed the public perception of the school; and
- Greater numbers of students have been exposed to online learning.

MVU Strategic Plan

As part of the Strategic Plan approved by the MVU Board of Directors on March 17, 2005, MVU will build on its strong bi-partisan support in the Michigan Legislature, and take steps to actively improve communications with key K-12 customers and stakeholders. These stakeholders include local school districts and ISDs, higher education institutions, the MDE and the Governor's Office.

MVU's new Strategic Plan also calls for adding representation on the MVU Board of Directors from the following K-12 areas:

- A high school principal or statewide professional association designee
- Michigan's Superintendent of Public Instruction (added March 17, 2005)
- A local school district superintendent

- An intermediate school district superintendent
- A nonpublic school representative or statewide professional association designee

In addition, the Strategic Plan includes a core objective of identifying existing K-12 regional alliances and collaborative working arrangements in Michigan, and exploring how MVU can join or support these alliances as a strategy to create better connections with current and prospective customers. These regional alliances could include local and intermediate school districts, community colleges, universities, human services organizations and other nonprofit groups.

Conclusions

Since its inception, MVU has served as a change-agent organization. MVU was expected to be a technology innovator that created tension in the "system." In pursuing this catalyst role and serving as an advocate for e-learning, MVU tended to act independently and was often slow to engage groups in meaningful dialogue, especially with key stakeholders in the education community.

MVU has made significant progress in the last few months to recalibrate its strategic direction and to focus all available technical, financial and human resources to serve Michigan's K-12 community with quality online products. Significant efforts have been made to reach out to Michigan's education community at all levels to seek input and feedback regarding the next chapter in MVU's history. Reactions from the field have been very positive and dozens of opinion leaders and stakeholders have shared valuable ideas and recommendations on how to move forward.

As discussed in this report several current state and federal policy initiatives reflect the strong connection between the current work of MVU and MVHS, and the desire of policy leaders at all levels to exploit the power of the Internet to improve teaching and learning, and expand instructional opportunities for all students. As communities, regions and states make strategic investments in human capital greater attention needs to be focused on policies that produce larger numbers of online learners. Businesses of all sizes are becoming more dependent on a global workforce that uses the Internet everyday to plan, manage and conduct basic business functions. More than ever before, today's high school students need 21st Century learning skills to be competitive in a global, information-based economy. Creating policies that expand the use of Internet-based instructional services can help make Michigan more competitive as a national leader in building a talented workforce. Appendix D provides a chronology of the development and growth of the MVHS from 1999 to 2005. The MVU and MVHS are poised to build on the experiences and successes described in this report in order to expand e-learning opportunities at the K-12 level.

Appendices

Appendix A

List of MVHS Advisory Council Members

Name	Title	Organization
Dr. Lyn Allen	Virtual Learning Consultant	Oakland Schools
Mr. David Bouck	Principal	Portland High School
Ms. Heather Bruning	Abilene Program Manager	Internet2
Mr. Terry Campbell	Principal, Adult & Community Education	Detroit Public Schools
Ms. Lois Doniver	Secretary/Treasurer	MFTSRP
Mr. Ron Faulds	Education Consultant	MI Department of Education
Mr. Lawrence Godwin	Superintendent	Menominee ISD
Ms. Kathy Hayes	Co-Director, Leadership Development	MASB
Mr. Carl Hoffman	Technology Coordinator	Monroe Middle School
Dr. Michelle Johnston	Dean, College of Education & Human Services	Ferris State University
Mr. Samuel E. LoPresto	Associate Director	MAISA
Mr. Jay Miller	High School Counselor	Ovid-Elsie High School
Ms. Olga Moir	Executive Director	MASCD
Mr. Roland Moore	Chief Information Officer	Detroit Public Schools
Ms. Naomi Norman	Director	REMC 16
Ms. Becky Rocho	Department Director	Calhoun ISD
Ms. Patricia Thornberry	Project Manager	EDS
Mr. Mike Wahl	Executive Director	MCCVLC
Mr. Glen Walstra	Executive Director	MANS
Ms. Joanne Welihan	Executive Director	MEMSPA
Mr. Fred Williams	Superintendent	Potterville Public Schools
Mr. Ric Wiltse	Executive Director	MACUL
Mr. Luke Zelley	Accessibility Specialist	The Disability Network

Appendix B

List of Michigan Schools Served by MVHS 1999 – 2005*

A.D. Johnston Jr. Sr. HS Academy for Business and Technology Academy of the Sacred Heart Addison Community Schools Adelante HS Adrian Public Schools-Second Chance Academy AGBU Alex-Marie Manoogian School Akron-Fairgrove Jr. Sr. HS Albion HS Alcona Jr. Sr. HS Algonac HS All Saints HS Allendale HS Andover HS Annapolis HS Ashley Community HS Athens Area HS Atlanta Jr. Sr. HS Bad Axe HS **Baldwin Senior HS** Bark River Harris Jr. Sr. HS Bath HS Battle Creek Central HS Bear Lake HS Beaver Island Community School **Beaverton HS Bellaire HS** Bellevue HS Bendle Senior HS Bentley HS **Benzie Central HS** Berkley HS Berrien Springs HS Berrien Springs Middle School Big Bay De Noc School **Big Rapids HS** Bimaadiziwin-GR **Bishop Gallagher HS Black River Public School** Bloomingdale Jr. Sr. HS Boyne City HS **Boyne Falls Public School**

Brandon HS Brandywine Senior HS Breckenridge HS Bridge HS Bridgman HS **Brimley Area Schools** Britton Macon School **Buchanan HS Buckley Community School** Burr Oak HS Burt Township School Byron Area HS **Byron Center HS** Cadillac HS Cadillac Junior HS Caledonia HS **Camden-Frontier HS** Capac Jr. Sr. HS Carman Ainsworth HS Caro Community School Carrollton HS Carson City-Crystal HS **Carsonville-Port Sanilac JSHS Caseville School** Cedar Springs HS Cedarville HS Central Academy Central HS-GR Central Lake HS Central Montcalm HS Centreville Senior HS Chandler Woods Charter Academy Charlevoix HS **Charlotte Senior HS** Chassell K-12 School Chelsea HS Chesaning Union HS Chippewa Hills HS Chippewa Valley HS **Churchill Community Education Center Churchill HS** City HS Clare HS

Clarenceville HS Clarkston HS Clawson HS Climax-Scotts Jr. Sr. HS Clinton HS ¹⁶) Alternative HS **Cionlara** Private School Cody HS Coldwater HS Coleman HS **Coloma Senior HS** Columbia Central HS Community HS Comstock HS **Comstock Park HS** Concord Academy Boyne Conner Creek Academy **Coopersville HS** Corunna HS Cousino HS Covert HS Creative Technologies Academy Creston HS Crestwood HS Crockett Vocational Tech. Center Crossroads Charter Academy **Croswell-Lexington HS** Dansville HS Decatur HS Deckerville Community HS **Deerfield Public School Delton Kellogg HS** Denby HS **DeTour HS** Detroit Public Schools - Schools Center Bldg. **Detroit School Of Industrial Arts Detroit Technology HS** Detroit World Outreach Christian Academy **Dewitt HS Dexter Community Schools** Divine Child HS Dollar Bay HS Dowagiac Union HS Down River HS Dryden HS

Dundee HS **Durand Area HS** DVA/Fordson Dwight Rich Middle School East Grand Rapids HS East Jackson HS East Jordan HS East Kentwood HS East Lansing HS Eastern HS Eaton Rapids HS Edsel Ford HS Edwardsburg HS Elk Rapids HS Ellsworth Community School **Engadine HS** Escanaba HS **Everett HS** Fairview Area Schools Farwell HS Fennville HS Fenton HS Ferndale HS Flat Rock HS Flint Southwestern Academy Ford HS Forest Area HS Forest Hills Central HS Forest Hills Eastern HS Forest Hills Northern HS Forest Park School Fowler HS Fr. Gabriel Richard HS Frankenmuth HS Frankfort HS Franklin HS Freedom Baptist HS Freeland HS Fremont HS Galien Twp Jr. Sr. HS Garber HS Gavlord HS Genesee Intermediate School District George A. Dondero HS Gladstone Area HS Glen Lake Secondary School

Gobles HS Godwin Heights HS Goodrich HS Grand Blanc HS Grand Haven HS Grand Rapids Baptist Academy 17 nd Rapids Christian HS uand Rapids Technical HS Grand Traverse Academy Grandville HS Grass Lake HS Grayling HS Greenville Senior HS Grosse Ile HS **Grosse Point North HS** Grosse Point South HS Grove Christian School Gull Lake HS Hackett Catholic Central Hamilton HS Hancock Central HS Hanover Horton HS Harbor Beach Jr. Sr. HS Harbor Springs School District Harper Creek HS Harper Woods HS Harrison HS Hart HS Hartford HS Hartland HS Haslett HS Hastings HS Henry Ford Academy Hill Center-Lansing Schools Hillman Jr. Sr. HS Hillsdale HS Holly HS Holt HS Hopkins HS Horizon Alternative Learning Center Houghton HS Houghton Lake HS Howardsville Christian School Howell HS Hudson Area HS Hudsonville HS

Huron HS Huron Valley Lutheran HS Hutchins Middle School Imlay City HS Inkster HS Inland Lakes HS Intensive Day Treatment Program-IDTP International Academy Ionia HS Iron Mountain HS Ishpeming HS Island City Academy Jackson Co HS Jackson Public Schools -Tomlinson School Jeffers HS Jewish Academy of Metropolitan Detroit Job Corps Johannesburg-Lewiston HS John Glenn Senior HS Jonesville Middle School Kake HS Kalamazoo Central HS Kalkaska HS Kearsley HS Kelloggsville HS Kenowa Hills HS Kingsford HS Kingston Jr. Sr. HS L C Mohr HS Ladywood HS Laingsburg HS Lake Linden Hubbell Jr. Sr. HS Lake Orion HS Lakeland HS Lakeshore Public Academy Lakeview HS Lakeview HS (Montcalm) Lakewood HS L'Anse Area School Jr. Sr. HS L'Anse Creuse HS L'Anse Creuse HS North Lapeer Community HS LaSalle HS Lawrence Jr. Sr. HS Lee M. Thurston Sr. HS Leelanau School

Lenawee Christian School Leslie HS Lincoln Senior HS LISD Vocational Technical Center Litchfield HS ¹ ivingston Technical Academy 18 vell HS LUY Norrix HS Luther L. Wright HS Lutheran High East Lutheran HS Northwest Lutheran HS NW Lutheran HS Westland Lutheran High South Mackinac Island School Mackinaw City HS Maltby Middle School Mancelona HS Manchester HS Manistee Catholic Central School Manistee HS Manistique Middle & HS Manton Consolidated HS Maple Valley Jr. Sr. HS Marine City HS Marine City HS-St. Clair RESA Marion HS Marlette HS Marquette Community Schools Marshall HS Martin HS Martin Luther King HS Marysville HS-St. Clair RESA Mason County Eastern Schools Mason HS Mason-Lake Oceana Math & Science Center Mattawan HS Mattawan Middle School Mayville HS McBain HS McBain Rural Agricultural School Memphis HS-St. Clair RESA Mendon HS Menominee Community Education Center Meridian HS Merrill HS

Mesick HS MI Institute Constr. & Technology MI Lutheran HS Midland Academy of Advanced/Creative **Studies** Midland HS Mid-Peninsula School Milan Community Education Milan HS Milford HS Millington HS Mona Shores HS Monroe HS Montabella HS Morenci HS Morey Charter School Morley Stanwood HS Morrice HS Mt. Clemens HS Mt. Pleasant HS Mumford HS **Munising Public Schools** Murray-Wright HS Muskegon Heights HS Muskegon Technical Academy Napoleon HS New Buffalo Jr. Sr. HS New Lothrop Jr. Sr. HS Newaygo HS Newberry HS Niles Senior HS North Adams HS North Dickinson HS North Farmington HS North Huron HS North Muskegon HS North Star Academy NorthPointe Christian HS Northport Public School Northview HS Northville HS Northwest Academy Northwest HS Northwoods Math Science & Technology Center Norway HS

Notre Dame Catholic HS Novi HS Oak Park HS **Oakland Christian School Oakland International Academy** Oakland Schools Technical Campus - NE Oakland Schools Technical Campus - NW **Oakland Schools Technical Campus - SE** ¹⁹ tland Schools Technical Campus - SW Juyssey MS/HS **Ogemaw Heights HS** Okemos HS Olivet HS Omega HS Onaway Jr. Sr. HS Onekama HS Onsted HS Ontonagon Jr. Sr. HS Orchard Center HS Oscoda Area HS Ottawa Hills HS **Ovid-Elsie HS** Owendale-Gagetown Jr. Sr. HS Oxford HS Pansophia Academy Parchment HS Pattengill Middle School Peck HS Pellston HS Pensacola Christian College Pentwater HS Peterson-Warren Academy Pewamo-Westphalia HS Pickford HS Pierz-Healy Jr. Sr. HS Pinckney Community HS Pinconning Area HS Pine River HS Pioneer High & Clare Adult Ed. Plainwell HS **Plymouth Canton HS** Plymouth Christian Academy Pontiac Central HS Pontiac Northern HS Port Huron South HS-St. Clair RESA Port Huron Northern HS-St. Clair RESA

Portland HS Potters House School Potterville HS Powers Catholic HS Providence Christian HS Quincy HS Reading HS **Reed City HS Regina HS Renaissance HS Richmond Community HS River Rouge HS River Valley HS Riverview Community HS Riverview East HS** Robichaud Sr. Jr. HS **Rochester HS** Rogers HS Romeo HS **Romeo Senior HS Roosevelt HS Roscommon HS Ruben Daniels Community School Rudyard HS** Sacred Heart Academy School Saginaw Arts & Sciences Academy Saline HS Sand Creek Jr. Sr. HS Sandusky HS Sanilac Career Center Sankofa Shule Sarah G. Banks Middle School Saranac HS Saugatuck HS Sault Ste. Marie Area HS School to Work Academy Schoolcraft HS Seaholm HS Sexton HS Shrine Catholic HS South Christian HS South Haven HS South Lake HS South Lyon HS Southfield Christian School Sparta HS

Spring Lake HS Springport HS St. Alphonsus HS St. Joseph HS St. Louis HS St. Matthew Lutheran School St. Charles Community HS St Clair HS-East China 20 Clair HS-St. Clair RESA Johns HS St. Mary's HS Standish-sterling Central HS Stephenson HS Stevenson HS Stockbridge HS Stoney Creek HS Sturgis HS Summit Academy HS Superior Central School Suttons Bay HS Swan Valley HS Tawas Area Jr. Sr. HS **TBAISD** Career Tech Center Tekonsha Cmty School District Three Rivers HS **Tinkham Alternative Education** Traverse City Central HS Traverse City West Sr. HS Tri County Senior HS **Tri-Township School Tri-Unity Christian School** Ubly Community HS Union HS Unionville-Sebewaing HS Unity Christian School Valley Christian Academy Valley Lutheran HS Vanderbilt Area School Vassar Senior HS Vestaburg Community HS Walled Lake Central Walled Lake Northern Walled Lake Western Walter French Academy Washburn HS Washtenaw Christian Academy

Waterford Kettering HS Waterford Mott HS Watervliet HS Wayland Union HS Wayne Memorial HS Webberville HS Wesleyan Christian Academy West Bloomfield HS West Iron County HS West MI Academy of Environmental Science West Michigan Learning Disabilities Foundation West Ottawa HS Western HS Weston Technical Academy White Cloud HS White Lake Area Community. Education White Pigeon Jr. Sr. HS Whitefish Township School Whiteford HS Whitehall HS Whitmore Lake HS Whittemore-Prescott Alternative Education Williamston HS Woodhaven HS Wyoming Park HS Yale HS-St. Clair RESA Youth Opportunity Movement-Northern Youth Opportunity Movement-Western **Ypsilanti HS**

Appendix C

List of MVHS Current Courses

Advanced Composition Algebra 1 Part 1 (PLATO) Algebra 1A - Flex 90 Algebra 1A (Apex) Algebra 1B - Flex 90 Algebra 1B (Apex) Algebra 2 Part 2 (PLATO) Algebra 2A - Flex 90 Algebra 2A (Apex) Algebra 2B - Flex 90 Algebra 2B (Apex) American Film Survey A American Government - Community HS American Government - Flex 90 American History 1A American History 1B American Literature 1A American Literature 1B American Literature A (Apex) American Literature B (Apex) Anatomy & Physiology A Anatomy & Physiology B AP Art History Part 1 AP Art History Part 2 AP Biology Part 1 (Apex) AP Biology Part 2 (Apex) AP Calculus AB Part 1 AP Calculus AB Part 2 **AP Chemistry Part 1** AP Chemistry Part 2 AP Computer Science A Part 1 AP Computer Science A Part 2 AP English Language & Composition Part 1 AP English Language & Composition Part 2 AP English Literature & Composition Part 1 AP English Literature & Composition Part 2 AP French Part 1 AP French Part 2 **AP** Macroeconomics **AP Microeconomics** AP Physics B Part 1 AP Physics B Part 2 **AP** Psychology

AP Spanish Language Part 1 AP Spanish Language Part 2 **AP Statistics Part 1 AP Statistics Part 2** AP U.S. Government and Politics AP U.S. History Part 1 AP U.S. History Part 2 Astronomy **Beginning Composition Biology** 1A **Biology 1B** Biology A (Apex) Biology B (Apex) **Business & Personal Protocol Business and Consumer Math Business Communication** Calculus 1A Calculus 1B Career Planning Chemistry 1A Chemistry 1B Chemistry A (Apex) Chemistry B (Apex) Civics Economics **Employability Skills** English 10a English 10b English 11th Grade Semester 2 (PLATO) English 9A English 9B English as a Second Language 1A Environmental Science A Environmental Science B French 1 A French 1 B French 2 A French 2 B Geography Geology (Apex) Geometry 1A Geometry 1B Geometry A (Apex)

Geometry B (Apex) German 1 A German 1 B German 2 A German 2 B **Global Issues** Health Science A Health Science B HTML, Dynamic HTML, and Scripting (Apex) Human Space Exploration Human Space Exploration - Flex 90 Information Technology Basics 1A Information Technology Basics 1B **International Business** Intro to English Lit. & Comp. A (Apex) Intro to English Lit. & Comp. B (Apex) Introduction to C++ Programming Introduction to Technology Introductory Algebra A (Apex) Journalism Keyboarding Math Fundamentals A (Apex) Math Skills A Math Skills B Microsoft Office XP Oceanography - Flex 90 Oceanography B-Flex 90

Personal Econ. & Finance Physics 1A Physics 1B Pre-Algebra A Pre-Algebra B Precalculus 1A Precalculus 1B Psychology Psychology II **Reading Comprehension** Sociology Spanish 1 A Spanish 1 B Spanish 2 A Spanish 2 B **Study Skills** Trigonometry 1A Trigonometry 1B Trigonometry (PLATO) U.S. Government and Politics (Apex) U.S. History A (Apex) U.S. History B (Apex) Web Design Basics HTML World Civilizations 1A World Civilizations 1B World History A (Apex) World History B (Apex) World Literature

Appendix D

A Chronology of the Development and Growth of the Michigan Virtual High School 1999 - 2005

2005

MVU Board of Directors adopts the Revised Strategic Plan focused on K-12 education.

MVHS signs license agreement with Plato Learning, Inc. for a low-cost student directed course software.

MVHS provides a formal report and recommendations related to e-learning at the K-12 level to MDE's Michigan High School Redesign Team.

MVHS initiates application process to become an accredited school through The Commission on International and Trans-regional Accreditation (CITA).

2004

Mr. Jamey Fitzpatrick appointed Interim President of MVU.

MVHS creates partnership with seven Upper Peninsula ISDs to provide volume pricing discounts for courses and products.

The North Central Regional Educational Laboratory (NCREL) awards MVHS a \$59,925 grant to study the effectiveness of MVHS online courses.

MVHS launches the Michigan Virtual Summer School as an affordable option for schools and parents and enrolls approximately 1,000 students.

MVHS participates in a U.S. Department of Education *Forum on Anytime, Anywhere Technology Access*, leading to the development of the *National Education Technology Plan*.

MVHS approved by the MDE as an authorized Supplemental Educational Services Provider under the federal No Child Left Behind (NCLB) legislation.

MVHS launches a new "per enrollment" pricing model for K-12 schools.

MVHS receives a \$99,410 grant from the U.S. Department of Education to support the development of the online Mathematics, Science and Technology Academy.

MVHS establishes eight part-time ambassadors to provide no cost support and informational services for schools, and account management responsibilities in regions around the state.

MVHS and the Arab-American and Chaldean Council located in Detroit developed a partnership relationship. MVHS provided six summer school classes at no cost to be used by the Council.

MVHS participates in a U.S. Department of Education Technology Conference in Florida to showcase K-12 e-learning options.

2003

Mr. Robert Currie, a former Michigan school superintendent, appointed as MVHS Executive Director.

The MVHS online MEAP Smart Curriculum adds review lessons and practice tests in science and social studies for 11th grade students, available at no cost to all Michigan students.

MVHS invited to provide a policy briefing to the State Board of Education on the progress of MVHS and the impact of e-learning.

To better reflect MVU's work in K-12 education, the Executive Director of the MASA/MAISA joins the MVU Board of Directors.

MVHS provides testimony before four key Michigan House of Representatives and Michigan Senate subcommittees on the work of the MVHS and the impact of e-learning.

MVHS provides briefings for more than 40 members of the Michigan House of Representatives, Michigan Senate and the Executive Office on the role and value of MVHS.

MVHS provides a briefing for all members of the Michigan Congressional Delegation on the MVHS and the role of e-learning in Michigan.

MVHS participates in the creation of the North American Council of Online Learning (NACOL) and becomes an institutional member.

MVHS develops and deploys the online Catalog/Enrollment Management System (CEMS) to support school and student registration and enrollment information.

MVHS and MDE successfully collaborate on a three year \$300,000 U.S. Department of Education *Advanced Placement Incentive Program* grant to provide courses and review tools to 100 of the state's most economically disadvantaged school districts.

2002

MVHS brings the Intel Foundation to Michigan to meet with officials from the City of Detroit and successfully develops a grant to establish four after school Intel Computer Clubhouses for middle and high school students.

MVU acquires the Michigan Occupational Information System (MOIS) and develops the myDreamExplorer career tool as a companion service for MVHS.

MVHS launches the online MEAP Smart Curriculum, with review lessons and practice tests in math, reading, and writing for all 11th grade students in Michigan.

MVHS staff invited to serve on the State Board of Education's *Embracing the Information Age Task Force* to develop policy recommendations, including items promoting e-learning.

To better reflect MVU's efforts in K-12 education, the Superintendents of Ann Arbor Public Schools and Traverse Bay Area ISD join the MVU Board of Directors.

MVHS sponsors a *Symposium on Leadership Strategies for E-Learning: High School to Higher ED* for K-12 and postsecondary educators.

Michigan's Superintendent of Public Instruction joins the MVU Board of Directors.

MVHS creates the Mathematics and Science Academy and begins development of a series of semester length courses with MVHS owned content.

MVHS develops strategic partnerships with NASA and the Shedd Aquarium in Chicago to provide high quality math and science course content and classroom resources.

MVHS staff serves on the Governor's *Declining School Enrollment Advisory Group* to examine the potential role of e-learning.

MVHS and the Michigan Association of Computer Users in Learning (MACUL) cosponsor the Intel *Teach to the Future* professional development workshops to train K-12 teachers to integrate technology into their day-to-day instruction.

2001

MVHS serves 101 schools with 676 enrollments.

MVHS collaborates with MDE to develop changes in the state's Pupil Accounting Rules to accommodate online student enrollments.

A broadly representative 25 member MVHS Advisory Council was established to provide guidance on the operation of the MVHS.

To better reflect MVU's work in K-12 education, the Executive Director of the MEA joins the MVU Board of Directors.

Ms. Nancy Davis appointed MVHS Executive Director.

MVU assigned responsibility to manage the Teacher Technology Initiative (TTI), and approximately 90,000 Michigan classroom teachers apply for personal computers and training.

MVU licenses more than 800 mini-courses through the Information Technology (IT) Training Initiative for Michigan students, educators, and small businesses at no cost.

MVHS sponsors a Symposium on the Building Blocks of Virtual High School Courses.

MVHS and the Michigan Association of Secondary School Principals (MASSP) develop an "eprimer" on virtual high school course policies and procedures to provide leadership and guidance to high schools across the state.

MVHS begins comprehensive online instructor training for Michigan teachers and develops a cadre of MVHS instructors.

MVHS negotiated an agreement with class.com to provide online course content.

MVHS establishes partnership with Michigan State University to provide high quality online advanced placement (AP) courses.

MVHS prepares a report to the Michigan Legislature on the educational needs of Migrant children.

MVHS continues the Advanced Placement Academy to serve the needs of high achieving high school students throughout Michigan. Advanced Placement (AP) classes, AP Exam Reviews and AP Class Tools provided to schools at no cost.

MVHS conducts research to determine the online courses, resources and services most needed by Michigan's K-12 education community.

MVHS secured a collaborative agreement with the MDE to provide MVU with approval authorization to offer Continuing Education Units (CEUs) to educators taking courses or other learning experiences through MVU that can be converted to State Board Continuing Education Units (SB-CEUs) with the approval of a sponsor.

MVHS provides seed funding to establish 14 Oracle Internet Academies across the state to advance the information technology skills of Michigan high school students.

MVU selected to serve as the fiscal agent for the \$6 million Bill and Melinda Gates Foundation *Leading the Future* school administrator professional development grant.

2000

Public Act 230 of 2000 authorized the establishment of the MVHS and identified specific goals.

MVHS forges partnership with Apex Learning, Inc. to provide high quality online advanced placement (AP) courses.

MVHS conforms to the Children's Online Privacy Protection Act (COPPA).

MVHS develops the Advanced Placement Academy to serve the needs of high achieving high school students throughout Michigan. Advanced Placement (AP) classes, AP Exam Reviews and AP Class Tools are provided to schools at no cost.

MVU selects Blackboard as the MVHS course management tool.

MVHS adopts an Onsite Mentor Model for student support and supervision.

MVHS conducts a focus group as the first of a series of research steps to determine the courses to be offered by the MVHS.

MVHS develops online courses that meet North Central Association Accreditation Standards, the Michigan Curriculum Frameworks and the Standards of Quality for Professional Development as prescribed by MDE.

MVHS receives the Michigan Association of Computer Users in Learning (MACUL) annual President's Award in recognition of efforts to advance the use of technology in education.

1999

MVU develops a proposal for the Governor and Michigan Legislature calling for the creation of a Michigan Virtual High School.

MVU conducts research on the advantages and benefits of online learning.

MVU works with MDE and the Ameritech Foundation to develop and launch a \$2.8 million K-12 teacher training program to support classroom teachers in the use technology.

MVU develops an e-learning pilot study with the Michigan Association of Intermediate School Administrators (MAISA) and provides scholarship support for 100 student participants.

MVU begins educating state policy leaders and educators about online learning.