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MICHIGAN VIRTUAL UNIVERSITY

ANNUAL REPORT: 2018-19

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About Michigan Virtual

Michigan Virtual University[®], commonly known as *Michigan Virtual*[™], is a nonprofit 501(c)(3) organization that supports the growth and development of digital learning in Michigan's K-12 schools. We initially served to demonstrate and document the benefits of online learning. More recently, we have invested significant time and resources to build awareness of and access to effective online learning opportunities for Michigan's K-12 schools and students.

Michigan Virtual provides a three-pronged approach to virtual learning. Since 2000, *Michigan Virtual* has been serving Michigan's K-12 community with online courses for high school and middle school students. As an accredited state virtual school, *Michigan Virtual* celebrated its 300,000th online course enrollment this fall. Unlike full-time virtual programs or cyber schools where students take 100% of their courses online, *Michigan Virtual* offers a supplemental program where students average less than two online courses per year, most often enrolling because the course was not available in their traditional school.

Michigan Virtual also has a long history of providing professional learning services to Michigan districts through both innovative online courses and face-to-face offerings. In this capacity-building role, *Michigan Virtual* partners with schools to provide educator training, develop and implement blended learning models, and identify and enact best practices in technology integration. Through this role, *Michigan Virtual* is one of the statewide leaders in providing educators with the required professional development hours necessary for renewal of their teaching certificates.

The final prong is *Michigan Virtual's* long history of working with Michigan's K-12 community and policy leaders to help make Michigan a leader in innovative education and forward-thinking policies. Early on, *Michigan Virtual* served primarily as a change agent when most school leaders and parents were not familiar with online learning. This work continues today with leadership from the *Michigan Virtual Learning Research Institute*[®] (*MVLRI*[®]), which was formed by *Michigan Virtual* in 2012 to expand Michigan's capacity to support new learning models, engage in active research to inform new policies in online and blended learning, and strengthen the state's infrastructures for sharing best practices.

The organization's mission is to advance K-12 digital learning and teaching through research, practice, and partnerships. Its vision is that every person can use digital learning to reach his or her full potential.

This Annual Report provides highlights of *Michigan Virtual's* student learning, professional learning, and research activities for the 2018-19 fiscal year.

Student Learning

Student Online Learning in Michigan

Before detailing the impact of the *Michigan Virtual's* student learning efforts, it may be valuable to provide a comprehensive statewide snapshot of virtual learning for K-12 students. Based on data published in *Michigan's K-12 Virtual Learning Effectiveness Report 2017-18*,¹ we know that:

- 598 Michigan public school districts reported at least one virtual enrollment.
- Of the 1,158 schools with virtual enrollments, over half had 100 or more virtual enrollments.
- Over 112,688 Michigan K-12 students took at least one virtual course in 2017-18, totaling over 581,911 virtual enrollments.
- Schools are disproportionately enrolling students in poverty into online courses. On average, schools also tend to enroll students who are struggling academically in their face-to-face courses or for a subject in which a student has failed rather than for advanced coursework or for a subject in which the student is proficient.
- The overall pass rate for virtual courses was 55%; however, almost half of the virtual learners – 54,700 students – passed every virtual course they took. The pass rate is low because of cases where students are being provided with large numbers of virtual courses without passing any of them. Restricting the number of virtual courses a student can take to one or two at a time until the student demonstrates successful completion might dramatically improve the statewide pass rate.
- Some schools are clearly more effective in using virtual learning than others. Twenty-five percent of schools with virtual learning had virtual pass rates of 90% to 100%.

From a policy perspective, there are two main drivers of virtual learning in Michigan schools. The first is that Michigan students are required to have an online learning experience² in order to graduate from high school. This requirement was adopted in 2006 as part of the Michigan Merit Curriculum (MMC) and was intended to prepare K-12 students for the digital world they will encounter in higher education, their future workplaces, and their personal lives. Schools were provided with flexibility in how they could fulfill the online learning requirement – in part due to the vast difference in technology access and readiness of schools in 2006. The options included:

- Take an online course.
- Complete a meaningful online experience of at least 20 hours.
- Complete the meaningful online experience of at least 20 hours incorporated into the required courses of the MMC.

While Michigan was the first state in the country with such a requirement, several other states have since followed suit. Some of these states have adopted more stringent requirements than Michigan, requiring students take an online course rather than have a 20-hour minimum experience.

The second policy driver has been Section 21f the State School Aid Act.³ Since 2013, Michigan public schools have been required to honor parent or student requests for enrollment in up to two online courses per academic term or more if parents, students, and school leadership agree that more than two are in the best interest of the child. Eligible courses for enrollment include those

published in the student's school district's catalog of board-approved courses or from those in a statewide catalog of virtual courses.⁴

Research suggests that despite these two policies existing for some time, Michigan adults are not very informed about them. A survey with 600 Michigan adults⁵ in the February of 2019 found that only 23% of those surveyed were aware of Michigan's online learning graduation requirement and only 33% were aware that middle school and high school students were allowed to take up to two online courses per academic term. Despite the lack of awareness, these same adults tended to hold a favorable view of online learning including 77% indicating that it was either very important (38%) or somewhat important (39%) for students in middle school and high school to have the option of enrolling in an online class at their local district.

One of the mindsets that led to the adoption of the online learning requirement was a belief that online learning would better prepare students for careers and college. Those assumptions seem to have been correct. That same survey of 600 Michigan adults found that for those currently employed or in school, 31% were required to take classes for continuing education or certifications online and an additional 42% said it was possible for them to do so.

At the same time as the survey of Michigan adults, another survey of Michigan college students was also conducted. Based on data from 400 students, 75% replied having taken a college/university class that used a learning management system (LMS), 71% had taken an online course at college/university, and 76% thought students who took an online course in high school would be better prepared for college/university.

Michigan Virtual Student Learning Fast Facts for 2018-19

- Over 16,900 students benefited from taking an online course through *Michigan Virtual*.
- Over 30,100 student enrollments were delivered to students.
- On average, students take less than two virtual courses with *Michigan Virtual* during a school year.
- Over 60% of Michigan LEA Districts used *Michigan Virtual* for student courses.
- Students enrolled in 266 different online courses.
- The pass rate for *Michigan Virtual* courses was 82% – well above the statewide virtual learning pass rate of about 55%.⁶

Students

A total of 16,919 students took online courses with *Michigan Virtual* in 2018-19. During the 2018-19 school year, *Michigan Virtual* accounted for 30,140 student enrollments.⁷ Thus, students averaged less than two enrollments, a statistic that aligns well with *Michigan Virtual's* supplementary mission. Fifty-one percent of students using *Michigan Virtual* took only one course.

Districts

Student enrollments came from 398 Michigan districts including 331 local education agency districts (LEA districts), 26 public school academy districts (PSA districts), three intermediate school districts (ISDs), and 38 nonpublic schools. As a point of comparison, based on data available

through the Center for Educational Performance and Information's (CEPI) Educational Entity Master website,⁸ in November 2019, there were 545 open-active LEA districts, 294 PSA districts, 56 ISDs, and 682 nonpublic schools. Using these counts as estimates for the 2018-19 school year, *Michigan Virtual* served approximately 61% of the LEA districts, 9% of the PSA districts, 5% of the ISDs, and 6% of the nonpublic schools with student courses. A complete list of Michigan districts served in 2018-19 is included in Appendix A, Figure 1.

Michigan schools accounted for 27,208 enrollments with the number of enrollments from a school ranging from a single enrollment to 1,400 enrollments. The average number of enrollments per school was 59. In addition to serving Michigan schools, *Michigan Virtual* generated 100 enrollments from 10 non-Michigan schools. *Michigan Virtual* also had 1,973 enrollments from parents or guardians directly enrolling their children in online courses. Students in 76 of Michigan's 83 counties were supported with online learning opportunities through *Michigan Virtual*. For a map of locations where students and schools were served, see Figure 2 of Appendix A.

Courses

Students enrolled in 266 different online courses with *Michigan Virtual*. These online courses included titles offered during the fall, spring, and summer. The list included core academic courses specifically aligned with the MMC, Advanced Placement[®] (AP[®]) courses, credit recovery courses, and summer enrichment experiences for students. These online courses included those developed by *Michigan Virtual* as well as courses and content licensed from nationally-recognized providers. The majority of courses (81%) were offered at the high school level, though 51 online courses were specifically available for elementary/middle school students. The full listing of the online courses used by Michigan districts and students during 2018-19 is available in Appendix A, Figure 3.

Pass Rates

Michigan Virtual had an 82% pass rate for the year. In calculating the pass rate, enrollments were excluded where credit or a grade were not attempted due to it being an enrichment opportunity (122) or where the data to calculate the pass rate was unavailable due to it residing in a partner provider's system (859). Of the 29,159 attempted enrollments, 28,607 were from students who finished or remained enrolled in the course through the last day for a 98% completion rate. In terms of course success, 24,038 of the 29,159 enrollments earned 60% or more of the total course points for an overall pass rate of 82%. To put that pass rate into perspective, the statewide - all providers - pass rate for virtual courses for the last three years has been below 60%.

From a subject area perspective, *Michigan Virtual* maintains an above average pass rate for each of the four core subject areas:

- English Language and Literature = 77%
- Life and Physical Sciences = 81%
- Mathematics = 77%
- Social Sciences and History = 85%

For comparison purposes, the statewide pass rates for online courses from all providers for each of the four core subjects ranged from 48% to 56%. Appendix A, Figure 4, shows the *Michigan Virtual*

pass rate for each subject area. A full list of the 2018-19 *Michigan Virtual* student pass rates by course title is also provided in Figure 3 of Appendix A. Pass rate also varied by district. Using Michigan LEA districts as an example, 117 of the 331 (35%) districts had a district-wide pass rate of 90% to 100% with *Michigan Virtual* student online courses. An additional 88 districts had pass rates of 80% to 90%. Thus, about six in 10 LEA districts had a pass rate of 80% or greater when using *Michigan Virtual*. There were 46 districts that had pass rates of less than 60%. Of those, less than half (21) had double digit enrollments. Twelve of those 46 districts had pass rates of less than 10% with 10 of the 12 having three or fewer enrollments. Figure 5 of Appendix A includes a chart displaying the distribution of district pass rates.

Current Initiatives

Michigan Virtual continues to expand its catalog of student learning opportunities for 2019-20 to better meet the needs of schools and students across the state. One example includes the introduction of dual enrollment courses offered online in partnership with St. Clair County Community College, ensuring that the full suite of dual enrollment courses offered provide for the opportunity to fulfill Michigan Transfer Agreement requirements through online dual enrollment.

This intentional strategy helps address both the financial challenge to students and families as well as the ultimate goal of getting 60% postsecondary attainment by 2030. Dual enrollment offers students and families a no or low cost option to obtain post-secondary credits. The online flexibility means students' zip codes or ability to drive to a campus are no longer a restriction to postsecondary options at the high school level. By graduating with postsecondary credits in hand, the cost of completing a degree is lessened and makes achieving a diploma more financially viable.

The following are the bulk of the priorities proposed in the Sec. 98 Plans & Benchmarks drafted for the current fiscal year as *Michigan Virtual* annually strives to continuously improve. Some of the efforts in this quality assurance endeavor include:

- The refinement of evaluating all *Michigan Virtual* teachers using the state-endorsed, modified Charlotte Danielson rubric.
- Working with the Center for Educational Performance and Improvement to produce recommendations for addressing the Teacher Effectiveness reporting requirements for online instructors.
- Maintaining accreditation for the 2019-20 school year.
- Selecting a new Learning Management System and migrating courses to the new platform to better meet the needs of learners and offer flexible options for districts with varying needs around school year and term start and end dates.
- Removing or replacing identified flash-based media assets in courses through a combination of product development efforts and vendor course licensing to improve the end-user experiences.
- Developing a new Advanced Placement course aligned to the College Board's new AP World History.
- Submitting a minimum of 10 semester-length courses to Quality Matters for independent course quality reviews.

Professional Learning

Professional Learning in Michigan

The Michigan Department of Education maintains guidelines for professional development that qualifies under Michigan law for both new teachers (those within the first three years of employment) as well as all teachers in the state.⁹ These guidelines deal primarily with the provision of professional learning for the purpose of recertification. Additionally, professional development standards for school counselors¹⁰ were recently adopted in light of the passage of regulations that specify the quantity of professional learning hours required within specific topic areas for counselor recertification. While these guidelines and standards are helpful for understanding Michigan's professional learning landscape, additional context can be gleaned by hearing directly from the educators served by professional development offerings. Research has shown that only 43% of Michigan educators receive professional learning tailored to their needs, and just over half say that their professional learning is helping to improve their performance. Additionally, Michigan educators with five or fewer years of experience feel ill-prepared for behavioral and social-emotional issues, highlighting a distinct area of need for professional development.¹¹ Understanding the policy landscape as well as the stated needs and preferences of Michigan educators is crucial for identifying the barriers and opportunities for professional development and effective strategies that *Michigan Virtual* can pursue to affect lasting change.

Barriers and Opportunities for Professional Development

Educators in Michigan continue to receive the majority of their formal professional learning through district or ISD/RESA supported learning opportunities rather than seeking out their own supplemental learning opportunities. This allows districts to customize professional learning to the goal-driven needs outlined in their school improvement plans, providing both challenge and opportunity for professional learning providers to align offerings to the key areas of need identified in school improvement plans.

In addition, ESSA has encouraged states to require more strenuous focus on using Title II, Part A funds for professional development on evidence-based instructional activities. The challenge this presents is that while some professional learning experiences are evidence-based and have been effective in supporting teachers and students in certain contexts, many professional development activities have resulted in negligible impacts for students. Ongoing focus is critical for developing professional learning experiences that can be evaluated for impact on student learning.

The Michigan Department of Education has also issued new guidelines for SCECH providers to allow for SCECHs to be easier to issue, be awarded in smaller increments, and have more rigor and value for educators. While alignment with identified district needs is essential, individual educators and school leaders are also driven by their own personal learning goals and by the needs of the students they are directly working with. Balancing the needs of an entire district while also providing personalized learning options for educators provides a challenge for the current system of professional learning.

This attention to goal-driven professional learning, along with the ESSA guidelines for Professional learning activities that are sustained and not just stand-alone, 1-day, or short term workshops, are collaborative, job-embedded, data-driven, and classroom-focused, has resulted in many districts

turning their attention to reducing the amount of “sit and get” professional learning within their district.

Further, both individual educators and school leaders are seeking opportunities for personalized professional learning. Digital learning options can provide personalized professional learning tailored to individual educators within a district. Leveraging digital systems, like a learning management system for professional learning, as well as mobile applications for educator learning allows participants to make their own learning reach beyond the staff meeting, professional development day, or conference experience. These tools also allow educators to focus on specific and individual goals for individual learning experiences. As in the prior year, the need for personalized professional learning is driving conversations with *Michigan Virtual* about how the Professional Learning Portal (PLP) and newly developed mobile web applications can serve as 24/7 learning tools allowing flexible access to multiple learning experiences.

As has been true for many years, time and the ability to release teachers from their classrooms during the school day to attend professional learning continues to be a significant challenge facing school districts. The significant and growing shortage of substitutes in Michigan leaves schools reaching out for alternative learning opportunities in order to keep teachers in their classrooms. This has been a key driver for the district-wide use of online systems for formal learning experiences, but also for informal learning, such as professional learning communities (PLCs).

Digital delivery of professional learning can and does reduce barriers for educators to receive quality professional learning. The ability to and the benefit of leveraging technology to allow expertise to flow across the state, without the constraints of time or geography, are well known. As educators become more adept at using technology, their ability to leverage technology like smartphones and mobile devices for professional learning will grow. *Michigan Virtual* continues to seek innovative solutions to address challenges around the lack of job-embedded support and opportunity for educators to receive professional development through technological innovation.

Michigan Virtual Professional Learning Fast Facts for 2018-19

- *Michigan Virtual* delivered enrollments in 324 online courses through its Professional Learning Portal¹² between October 1, 2018 and September 30, 2019.
- During that same time frame, *Michigan Virtual* had over 70,600 enrollments in online, blended, and face-to-face trainings.
- *Michigan Virtual* provided over 130,000 completed State Continuing Education Clock Hours (SCECH).
- Served more than 25,000 educators with more than 280,000 hours of professional learning services.
- Over 22,300 enrollments were provided in Essential Instructional Practices in Early Literacy K-3, Prekindergarten, and School and Centerwide courses.
- Use of *Michigan Virtual*'s online professional learning offerings was widespread. Educators enrolled from 100% of the state's ISDs, 90% of the LEA districts, 74% of the PSA districts, and 46% of the nonpublic schools.

- A new training focused on personalized learning, called Teacher Boost,¹³ was facilitated in Lansing with 22 teachers from across Michigan.
- Three sessions of Blended Learning Live!,¹⁴ a two-day program supporting school-based and district-wide teams to develop an implementation plan for virtual and personalized learning models at the systems-level, were held throughout the fiscal year.
- Four face-to-face mentor trainings were held across Michigan to help broaden the knowledge and perspectives on the role of the mentor in supporting online learners.¹⁵ These trainings totaled 50 participants and complemented the learning and resources within the online mentor community which served 294 members.
- A total of 30 new courses were launched in *Michigan Virtual's* Professional Learning Portal, including courses developed by *Michigan Virtual* staff as well as courses fully developed and run by partner organizations.

Professional Learning Activities

In fiscal year 2019, *Michigan Virtual* offered over 320 online and hybrid professional learning experiences through its Professional Learning Portal and generated over 70,600 enrollments. These online professional learning enrollments came from people who reported being affiliated with 56 ISDs, 490 LEA districts, 218 PSA districts, and 314 nonpublic schools. A complete list of Michigan districts served in 2018-19 is included in Figure 7 of Appendix B. A map showing the locations of these districts is provided in Figure 8 of Appendix B.

Offerings in the areas of early literacy essentials, differentiated instruction, and working with students in poverty saw some of the highest numbers of enrollments. To continue expanding *Michigan Virtual's* reach and impact, staff focused on strengthening partnerships with the Michigan Department of Education and other education associations, tapping into ongoing or newly begun statewide professional learning initiatives, and refining and growing offerings that allowed for more personalized and relevant professional development.

MDE Collaboration

Michigan Virtual continued its partnership with the Michigan Department of Education to scale professional learning through the use of digital and online learning environments. This year saw the development of new courses in topic areas including social-emotional learning and educator evaluation, along with updates and continued support of other courses launched since the partnership began in 2016.

Michigan Virtual iterated on its professional learning course focused on social-emotional learning that was launched in fiscal year 2018 by acting on feedback from users about the length and breadth of the course. The course was revised and separated into five individual courses focusing on the foundations of SEL, embedding SEL schoolwide, integrating SEL into culturally responsive classrooms and professional culture, and trauma-informed support. These courses have generated nearly 4,000 enrollments statewide.

MDE and *Michigan Virtual* also partnered to develop and launch a suite of six courses on educator evaluation in Michigan. The content for these courses was informed by representatives from the

Michigan Education Association and aimed to empower Michigan educators to take a level of ownership over their evaluations for the purpose of professional improvement. The courses cover topics including formative and summative reviews, self-assessment and goal setting, and reflective practices. These courses have generated over 1,500 enrollments since their launch.

Two other courses were updated to reflect revised policy and knowledge: Seclusion & Restraint and Assessment Security. These courses, which help education professionals understand crucial policies and practices in the context of a school setting, have garnered nearly 11,000 enrollments since their launch. *Michigan Virtual* is also working with MDE to offer two tracks for the Assessment Security course: one that is comprehensive and required for all test administrators throughout the state, and another that is scaled down and focuses only on annual updates to the policy, and will be offered to only those who have completed the first comprehensive course.

Michigan Virtual also continues to offer courses developed under the MI Excel program at MDE to support schools with comprehensive school improvement. The most popular courses in this group, “Differentiated Instruction: Maximizing Learning for All” and “Changing Minds to Address Poverty in the Classroom”, have totaled nearly 6,000 enrollments since being launched.

Michigan Virtual also provides additional support for several statewide initiatives, including:

- *Michigan Virtual* continues to update and maintain 21 professional learning modules, developed in partnership with MDE and MAISA, around essential pre-K through third grade literacy instructional practices. To date, there have been nearly 34,000 educator enrollments in the modules.
- The Michigan #GoOpen initiative, which pushes for open access to quality learning materials. *Michigan Virtual* has dedicated resources through representation on statewide workgroups to provide strategic input on the initiative, as well as through the development and hosting of a free 4-SCECH course on open educational resources in Michigan. This course has generated over 1,300 enrollments since its launch.
- The adoption and rollout of the K-12 Computer Science Standards,¹⁶ which will require significant effort to build awareness and opportunities for teachers to engage in professional learning to best support CS learning at all levels. *Michigan Virtual* participates in a statewide workgroup which includes multiple offices at MDE, the General Education Leadership Network, the MiSTEM Network, and multiple education associations, to help define a rollout and implementation plan for the standards. Additionally, *Michigan Virtual* hosted a design sprint with statewide stakeholders to propose a competency-based framework for professional learning around CS, and has agreed to develop introductory trainings that cover the standards and their use.

Additional Statewide Efforts

Michigan Virtual has continued to partner with stakeholders interested in competency-based professional learning and micro-credentialing. This includes working with the Michigan Elementary and Middle Schools Principals’ Association (MEMSPA) to launch four new micro-credential courses on topics including comprehensive needs assessments, student engagement, and school

improvement, and brings the total of MEMSPA micro-credential courses offered with *Michigan Virtual* to nine. Additionally, the continued partnership with the Michigan Association of School Administrators (MASA) produced a new micro-credential course on building a district leadership team; the MASA micro-credential course on communications was also continually offered throughout the fiscal year. The partnerships with MEMSPA and MASA will continue throughout the coming fiscal year to produce more micro-credentials to serve their members.

The Michigan Assessment Consortium continues to partner with *Michigan Virtual* to develop and offer online professional learning on assessment strategies. One course, on collaborative inquiry, was fully developed and launched on the Professional Learning Portal; four additional micro-credentials, focusing on learning targets, assessment development, balanced assessment systems, and formative feedback, have been developed and are currently in beta testing. These micro-credentials will be included in pathways built around the nine MAC courses that are currently hosted with *Michigan Virtual*.

Members of the *Michigan Virtual* professional learning team continued participation on a statewide workgroup coordinated by the MDE Office of Educator Excellence, focused on building awareness, outlining quality expectations, and determining the incentives structure for micro-credentials in Michigan. The workgroup created a combined whitepaper covering topics from quality and rigor, to technical delivery and challenges around building a micro-credential ecosystem across the state. The workgroup completed its work in late spring 2019.

Michigan Virtual continues to provide strong support for educational associations looking to make the transition to the online space for professional learning. Groups that *Michigan Virtual* provided professional learning assistance to over the last year are listed in alphabetical order:

- Michigan ASCD
- Michigan Assessment Consortium
- Michigan Association of College Admissions Counselors
- Michigan Association of Intermediate School Administrators
- Michigan Association of Secondary School Principals
- Michigan Association of Superintendents and Administrators
- Michigan Elementary and Middle School Principals
- Michigan's Integrated Behavior and Learning Support Initiative
- General Education Leadership Network

Michigan Virtual continued its advocacy for effective mentoring of online learners, a significant factor in the success of students learning online. During the 2019 fiscal year, professional learning opportunities for mentors were provided in both online and face-to-face modalities. These learning opportunities are designed to connect mentors to one another from across the state and spur collaboration and strategy sharing for the purpose of effective support of online learners. The online opportunities provided include a 12 SCECH course on mentoring skills and strategies, which was updated this year to include the latest research and resources, as well as the online mentor community, which served 294 members through the provision of resources and discussion forums.

Personalization

Statewide research has highlighted a lack of personalized, relevant professional development opportunities available to teachers and other education professionals in Michigan. With this in mind, *Michigan Virtual* efforts this past fiscal year focused on:

- Knowledge Network - Work continued on the *Michigan Virtual*-designed mobile application formerly referred to as NuTeacher. The application and web platform, focused on professional learning and community building, was revised based on internal team feedback and suggestions from pilot users. Two pilots, one with *Michigan Virtual* teaching staff and one with teachers from Lansing School District, provided valuable data on implementation and usefulness of the content and platform.
- Blended Suite - *Michigan Virtual* continues to offer a comprehensive package of services and products that include professional development for educators and administrators that support the implementation and adoption of effective blended and personalized learning.¹⁷ This year, a newly developed course was launched that focuses on the use of technology tools to develop course content for use in a blended classroom, called Digital Content in the Blended Classroom.
- Blended Learning Live! - *Michigan Virtual* offered three Blended Learning Live!, events for educators around the state of Michigan.¹⁸ Related to districtwide blended learning implementation efforts, *Michigan Virtual* is continuing the partnership with Heather Staker, a nationally-recognized expert, to offer Blended Learning Live!. Blended Learning Live! addresses a district's desire to push forward with blended, online, and personalized learning in their district without knowing all of the details on how to start. Often a school leader wants a formula for the correct implementation and rollout of 1:1, blended learning, and more tech integration in their district. Through this program, a team of district or school leaders receive scaffolded support to develop a blended learning implementation plan. In true blended fashion, the two-day, face-to-face event is enhanced by online opportunities before and after the face-to-face learning experience.
- Teacher Boost - *Michigan Virtual* has partnered with Heather Staker to provide a one day professional development for teachers on best practices with implementing personalized and student centered learning. This one day event gives teachers the opportunity to experience personalized learning and build learning opportunities for students.¹⁹
- MyPD - The MyPD course offering,²⁰ an innovative and highly personalized professional development experience, saw an increased number of enrollments as well as an iteration on the program design. *Michigan Virtual*, working with MDE, responded to learner feedback about the desire to have a variable number of SCECHs be awarded based on the amount of learning and level of detail of the plan submitted by the learner.
- Podcast PD - *Michigan Virtual* launched a new course in its Podcast PD series, which leverages the podcasting outreach initiative led by Senior Instructional Design Coach Jeff Gerlach known as the *Digital Backpack*.²¹ The course, titled Growing Student Agency and Implementing Google Classroom, features a podcast interview with a Michigan teacher and focuses on student agency as a multi-faceted skill that can be grown with the use of technology. This new course brings the total number of Podcast PD courses offered within the portal to three.

Research Institute

Section 98 of the State School Aid Act also directs *Michigan Virtual* through its research institute, *MVLRI*, to address the following tasks to strengthen teaching and learning for K-12 education. Toward that end, *MVLRI* has responsibilities as summarized in the items below.

(A) Support and accelerate innovation in education through the following activities:

2(a)(i) Test, evaluate, and recommend as appropriate new technology-based instructional tools and resources.

To better serve educators looking for quality educational tools to meet their needs, *Michigan Virtual* published a blog series focused on educators utilizing technology to serve the needs of their students. The series of 12 posts under the tag “Tips and Tools”²² on the *Michigan Virtual* blog page all feature different educators and different technologies and strategies. The posts feature specific technologies such as Google Slides, Powtoons, and Calendly as well as strategies such as blended learning, roadmaps, and supporting computational thinking and computer science in Kindergarten.

Michigan Virtual's digital outreach effort for fiscal year 2019 included a suite of blog posts and podcasts that highlight teachers and their use of educational technology in their settings. Four podcast episodes were published on topics including student engagement, student agency and Google Classroom, building student relationships in online courses, and digital well-being.²³

Michigan Virtual also continued to offer its innovative professional learning courses that utilize podcasts and other digital media assets for learning and reflection; a new course, Growing Student Agency and Implementing Google Classroom,²⁴ was also made available in the Professional Learning Portal.

2(a)(ii) Research, design, and recommend digital education delivery models for use by pupils and teachers that include age-appropriate multimedia instructional content.

Michigan Virtual continued research on learning analytics in mathematics courses for the 2016-17 and 2017-18 academic years by exploring a wide array of student engagement and tracking variables obtained from the learning management system repositories. Growth Mixture Modeling explored students’ sub-groups based on their learning trajectories in the course and identified a large group of on-track, linear growth students in the 2017-18 year as well as a smaller group that struggled to obtain the necessary course points. A write up²⁵ of this research is available on the *MVLRI* blog page.

In exploring methods to monitor progress on professional learning and better understand professional discourse in online learning communities, *Michigan Virtual* staff collected network and text data from discussion forums housed in two virtual professional communities and analyzed data using text-mining focused on content words, text-mining with function words, and social network analysis. *Michigan Virtual* published a report²⁶ to the *MVLRI* website detailing the three methods of analysis, implications of the results, and discussion of findings and next steps.

As a continuation of work done in the 2017-18 year, *Michigan Virtual* again worked with Kerry Rice and Andy Hung of Boise State University to refine models to identify early warning indicators of student success or failure in their online courses. For 2018-19, this research was expanded to include course enrollments from prior school years. The expanded model was then tested on data from another school year. *Michigan Virtual* published a recorded webinar²⁷ summarizing the research conducted by Kerry Rice and Andy Hung. This webinar emphasized the topic of how learning analytics provides a mechanism to support educational decision-making and provide timely interventions. In the webinar, the researchers presented a summary of early warning prediction and how it relates to online learners at the K-12 level.

Last fiscal year, *Michigan Virtual* designed a mobile application called “NuTeacher.” NuTeacher was developed to help all teachers, but particularly new teachers, connect, share, and learn from their colleagues. It is based on the theory of action that beginning teachers have a need to connect with master teachers, establish professional relationships, and maintain continuous discussions around classroom-related topics. The app is now available on the iOS App and Google Play stores. *Michigan Virtual* launched two pilots of the NuTeacher app: one with the Lansing School District’s New Teacher Network Initiative, and another with *Michigan Virtual*’s student learning instructional staff. Results from the pilot showed mixed success but provided *Michigan Virtual* with valuable data and information for future implementations and rollouts of the application. Additionally targeted feedback from pilot users has been incorporated into numerous continuous updates to the application to improve the user interface and overall user experience.

In speaking with stakeholders throughout the state, many leaders are sharing their challenges dealing with social and emotional issues in their districts. To help address this concern, *Michigan Virtual* partnered with Evolution Labs to make available their Suite 360 online and mobile application.²⁸ Suite360 is a digital character development and behavior intervention program that offers programs for students and parents as well as professional development for teachers, administrators, and support staff. It also includes a restorative justice program for students who need extra support with conduct and behavior. We have provided post-implementation surveys to each customer to collect information on how the product is being used, the areas where the product is meeting schools’ needs and expectations, and areas for improvement. We have also followed up in each instance where there were post-implementation concerns to gather more information and to ensure effective product use. Feedback is also shared with our partners at Evolution Labs to inform product revisions where appropriate.

The dynamic nature of communication that takes place between the instructor and students poses challenges for both. Further, communications between instructors and schools and parents/guardians are pivotal roles in successful online teaching. To gain an understanding of that dynamic, *Michigan Virtual* explored the communication experiences and perspectives of instructors.²⁹ Data from student end of course surveys were examined using a variety of statistical tests, including factor analysis, multivariate analysis of variance, its post-hoc test, and effect size estimation. Findings include (a) students who are more motivated and engaged in communicative interactions with the teacher are more likely to show course outcomes and satisfaction at a greater degree than their counterparts; (b) one of the most preferred communication methods is in-house messaging tools; and (c) this preference has a significant association with the final grade, course

engagement level, course satisfaction, and student perceived quality of course. Lastly, analyses of actual transaction data confirmed that the greater the frequency of student outgoing messages through the messaging tool, the better the chance of success in the course.

For the past couple of years, *Michigan Virtual* has worked with Dr. Charles Graham to develop and validate a blended teaching readiness instrument. As part of his work in blended learning, Dr. Graham and his colleagues released an open educational textbook, entitled *K-12 Blended Teaching: A Guide to Personalized Learning and Online Integration*.³⁰ *Michigan Virtual*, along with others reviewed the book and gave feedback on best practices. This publication is an open resource for educators.

2(a)(iii) Research, develop, and recommend annually to the department criteria by which cyber schools and virtual course providers should be monitored and evaluated to ensure a quality education for their pupils.

Michigan Virtual, along with staff from MDE, participated in the revision of the *National Standards for Quality Online Programs, Teaching, and Courses*.³¹ This effort was led by the Virtual Learning Leadership Alliance³² and Quality Matters.³³ All three nationally-recognized standards were updated and published in 2019. *Michigan Virtual* promotes the quality standards on its website, in presentations and newsletters, and in meetings with the many partnerships it maintains within and beyond Michigan.

The importance for a district to have a process in place to report virtual learners in accordance with pupil attendance and accounting guidelines in order to receive appropriate state funding led *Michigan Virtual* to solicit feedback and tools from schools across Michigan on how they report their online learners for pupil count day. This effort resulted in a webinar collaboration with staff from the Michigan Department of Education (MDE). Approximately 150 educators participated in the live webinar where they learned what's expected and had questions answered. The webinar was recorded and is available on demand.³⁴ Communication with CEPI on data collection and enhancements is ongoing.

A meeting with MDE in May shared information about *Michigan Virtual's* program reviews. *Michigan Virtual* offers supplemental online program reviews³⁵ to Michigan school districts for the purpose of reviewing their programs in the areas of: content procurement and monitoring practices, instructor training and communication, mentor training and student support techniques, student selection processes, parent communication and support, and overall program evaluation. Reviews collect survey and interview data from online programs and culminate in reports that include written feedback on the strengths and opportunities for further development in each of the focus areas as well as more than 60 resources schools may utilize to increase program effectiveness. A rubric is included as a resource for school leaders to reflect on the structure and implementation of online courses in their schools. *Michigan Virtual* invites schools to participate through Michigan's education organizations' newsletters, at presentations, on its website and through individual invitations to participate. Reviews were completed for two Michigan schools, two are in progress awaiting school feedback, and four more expressed interest and were unable to begin the review process.

2(a)(iv) - Based on pupil completion and performance data reported to the department or the center for educational performance and information from cyber schools and other virtual course providers operating in this state, analyze the effectiveness of virtual learning delivery models in preparing pupils to be college- and career-ready and publish a report that highlights enrollment totals, completion rates, and the overall impact on pupils. The report shall be submitted to the house and senate appropriations subcommittees on state school aid, the state budget director, the house and senate fiscal agencies, the department, districts, and intermediate districts not later than March 31 of each year.

The sixth annual *Michigan's K-12 Virtual Learning Effectiveness Report*³⁶ was published and mailed to required stakeholders, including superintendents and high school and middle school principals. The report is based on pupil completion and performance data reported by schools to MDE or CEPI, and highlights 2017-18 enrollment totals, completion rates, and the overall impact of virtual courses on K-12 pupils. The report found that over 112,000 K-12 students took virtual courses in 2017-18, accounting for over 580,000 virtual course enrollments. Local Education Agency (LEAs) provided about 58% of all virtual enrollments with Public School Academy (PSA) schools adding another 39% of the virtual enrollments. Enrollments were heaviest in the high school grades. The pass rate for virtual courses was 55%; however, almost half of the virtual learners passed every virtual course they took. About one in four virtual learners, on the other hand, did not pass any of the virtual courses they took. Two-thirds of Michigan school districts reported having virtual enrollments. About 7% of all K-12 students in the state took a virtual course. In addition to mailing the report, *Michigan Virtual* posted an infographic³⁷ and a recorded presentation³⁸ on its website to spread the findings.

2(a)(v) - Provide an extensive professional development program to at least 30,000 educational personnel, including teachers, school administrators, and school board members, that focuses on the effective integration of virtual learning into curricula and instruction. The Michigan Virtual Learning Research Institute is encouraged to work with the MiSTEM advisory council created under section 99s to coordinate professional development of teachers in applicable fields. In addition, the Michigan Virtual Learning Research Institute and external stakeholders are encouraged to coordinate with the department for professional development in this state. Not later than December 1 of each year, the Michigan Virtual Learning Research Institute shall submit 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 on the number of teachers, school administrators, and school board members who have received professional development services from the Michigan Virtual University. The report shall also identify barriers and other opportunities to encourage the adoption of virtual learning in the public education system.

Details of *Michigan Virtual's* professional learning activities are documented earlier in this report under the professional learning section.

2(a)(vi) Identify and share best practices for planning, implementing, and evaluating virtual and blended education delivery models with intermediate districts, districts, and public school academies to accelerate the adoption of innovative education delivery models statewide.

Michigan Virtual has been heavily involved in the creation of quality standards for online learning, including having members serve on the leadership and working groups for this national effort. The National Standards for Quality Online Learning Programs and Teaching were released on March 1, 2019, and the National Standards for Quality Online Learning Course Standards were released in the fall of 2019.³⁹ *Michigan Virtual* promotes the standards on its website, in presentations and newsletters and in meetings with the many partnerships it maintains within and beyond Michigan.⁴⁰

Michigan Virtual also spreads best practice by conducting supplemental online program reviews free of charge to Michigan schools.⁴¹ These reviews assess programs in the areas of content procurement and monitoring practices, instructor training and communication, mentor training and student support techniques, student selection processes, parent communication, and overall program evaluation. Each review culminates in a summary of findings detailing program strengths, opportunities to further develop program effectiveness, and includes targeted resources regarding the growth opportunities identified during the review.

Michigan Virtual staff also offers blended training events. Our Blended Learning Live! two-day program supports school-based or district-wide teams as they develop an implementation plan for virtual and personalized learning models at the systems-level.⁴² This two-day program has been implemented at three districts around the state to support school-based or district-wide teams as they develop an implementation plan for virtual and personalized learning models at the systems-level.

Michigan Virtual facilitated a new face-to-face training around personalized learning with technology. The personalized learning face-to-face training was held on August 7, 2019 at *Michigan Virtual*. Twenty-two educators participated in the training. During this training teachers experienced different models of blended learning in order to personalize learning within their own classrooms.

The MACUL conference is Michigan's premier educational technology professional learning conference serving more than 5,000 attendees. *Michigan Virtual* delivered seven presentations this year. Session titles include: 10 Innovative Tech Tools You Can Bring into Your Classroom Tomorrow, Expectations vs. Reality of Online Teaching, High School Online Learners Share Their Stories, You Get Three Wishes from the PD Genie: What Are They?, Unlocking Personalized Learning for Students, Social-Emotional Learning Enters the Digital World, and How the G Suite for Education Can Help You Personalize Your Classroom. A lab session entitled It's Time to Get Smart: Bringing PD to Your Smartphone was also conducted.

Michigan Virtual annually participate and/or present at approximately 11 education-focused Michigan conferences. Some others this year, in addition to MACUL, were MASA Women in Leadership, MANS education conference, MASA mid-winter conference and MASSP Edcon.

Every year, *Michigan Virtual* maintains, and updates where needed, versions of each resource in its family of guides: *Parent Guide to Online Learning*, *Mentor Fundamentals: A Guide to Mentoring Online Learners*, *Student Guide to Online Learning*, *Teacher Guide to Online Learning*, *School Board Guide to Online Learning*, *Administrator Guide to Online Learning* and *Implementation Guidelines: Section 21f of the State School Aid Act*.⁴³ The most recent addition to the guides, the *Administrator Guide to Online Learning* is supported and promoted by MASA, MASSP, MEMSPA, and MAISA. These guides are free, vendor-agnostic resources created to inform the public about the nature of online learning and what should be considered and understood by specific stakeholders. The guides are also used by other states and countries and can be customized. Alternative formats are being explored, such as a mobile application, for the purpose of expanding the usefulness of the best practices published in the guides.

(B) Provide leadership for this state's system of virtual learning education by doing the following activities:

2(b)(i) Develop and report policy recommendations to the governor and the legislature that accelerate the expansion of effective virtual learning in this state's schools.

Our virtual learning recommendations were provided in the spring of 2019. They included three areas of opportunity. The first was to coordinate with the Department to create a one-hour or less training for mentor teachers and look for ways to encourage and promote the training. The second was to assist MDE in creating examples on how to collect parental consent in line with the requirements of Section 21f of the State School Aid Act. The final recommendation was to explore with the Department and CEPI the possibility of modifying an existing virtual learning field that schools are required to report to the State. The focus would be on making the item easier to report accurate data on, reduce the number of potential responses from four to three, and increase the usefulness of the data received.

2(b)(ii) Provide a clearinghouse for research reports, academic studies, evaluations, and other information related to virtual learning.

Michigan Virtual continued to provide the *Research Clearinghouse for K-12 Blended and Online Learning*.⁴⁴ As of September 2019, the Clearinghouse has been up and running 99.95% of the time. Four quarterly newsletters were shared out in December 2018,⁴⁵ March,⁴⁶ May,⁴⁷ and July 2019.⁴⁸ The newsletters highlighted approximately five resources from *Michigan Virtual* as well as external researchers. *Michigan Virtual* added over 100 new resources during the fiscal year and now houses citations for 1,042 resources.

2(b)(iii) Promote and distribute the most current instructional design standards and guidelines for virtual teaching.

Research on instructional design guidelines and standards is key to meaningful design of online and blended learning environments for K-12 students. Because of this, *Michigan Virtual* adds relevant articles and reports in the Clearinghouse and continues to tag with keywords including “instructional design” and “standards” to highlight continued work being done in the field regarding these two

topics. To date, there are 60 resources tagged with these keywords, more than 20 of which were added in 2019.

Additionally, as was mentioned earlier under the “Identify and Share Best Practices” section, *Michigan Virtual* has been heavily involved in the quality standards for online learning revision work, which includes guidelines for virtual teaching and instructional design components.

Michigan Virtual also created an online course on instructional design this year. Called *So You Want to be an Instructional Designer?*,⁴⁹ this four module course introduces educators to some of the basics of instructional design. Interested individuals can sign up for the self-paced course free of charge through the PLP.

2(b)(iv) In collaboration with the department and interested colleges and universities in this state, support implementation and improvements related to effective virtual learning instruction.

Michigan Virtual has developed a suite of online resources and courses that may be of value to teacher preparation institutions. These resources include digital content around areas such as early literacy, blended and online instruction, and use of open educational resources. The resources are available to colleges and universities to use through the *Michigan Virtual*-hosted environments, and in some cases, are portable for use in a university-hosted environment.

In August 2019, *Michigan Virtual* sent a communication⁵⁰ to the deans, directors, or chairs at each of the teacher preparation programs at Michigan public universities to detail how they can use *Michigan Virtual* professional learning content and courses in their college offerings to help teachers in the areas of online and blended learning, mentoring learners in online learning settings, and effective use of technology in instruction. Additionally, opportunities to collaborate on Literacy Essentials, online and blended learning, and courses focusing on the use of open educational resources developed in partnership with the Michigan Department of Education and the #GoOpen initiative were featured in the communication. *Michigan Virtual* additionally offered to coordinate access to the content as well as provide technical support materials for self-hosting by the college or university.

2(b)(v) Pursue public/private partnerships that include districts to study and implement competency based technology-rich virtual learning models

Since October 2018, *Michigan Virtual* has coordinated and assisted in the development of six micro-credentials for educators in Michigan. The associations currently hosting micro-credentials for principals, administrators, and teachers are the Michigan Elementary and Middle School Principal Association (MEMSPA), the Michigan Association of School Administrators (MASA), and the Michigan Assessment Consortium (MAC). MASA has developed a superintendent communications and district leadership team micro-credentials, with a human resources micro-credential in development.⁵¹ MEMSPA has been developing micro-credentials aligned with the Michigan Integrated Continuous Improvement Process (MI-CIPS) for building principals on Title I, IIa, IV funding, comprehensive needs analysis, and school systems and supports.⁵²

In December 2018, *Michigan Virtual* kicked off a development effort on creating a platform to help facilitate the coordination of reviewer pools for micro-credentials. In the micro-credential experience, users submit evidence of competency to reviewers for feedback and scoring. Managing these qualified reviewers has become an increasingly difficult workflow for organizations delivering micro-credentials. *Michigan Virtual* worked with partners to understand the issues they were experiencing around recruiting, managing and delivering high quality evidence scoring in a timely manner. The effort has produced a platform, called Wondercert, that is co-developed by *Michigan Virtual*. The platform allows for easy creation and management of reviewer pools, which can be integrated into existing technology infrastructure used in delivering micro-credentials. The platform has been in development since February 2019, with a pilot being released in late October 2019. Outside of integrating the platform into *Michigan Virtual* professional learning systems, efforts to coordinate early implementation of the platform for pilots has been underway since summer 2019, with early commitments from Michigan State University, and the Friday Institute at North Carolina State University.

Since March of 2019 Ed-Fi licensing requirements have been reviewed by the *Michigan Virtual* legal team to determine validity of *Michigan Virtual* as a licensed developer. The technology integration team has been in contact with Michigan Data Hubs representatives to determine the possibility of establishing a sandbox environment to allow for testing of our internally developed applications. After the initial communications, a statement of work for the project was created that identified personnel, objectives, deliverables and a potential road-map for further work.

2(b)(vi) Create a statewide network of school-based mentors serving as liaisons between pupils, virtual instructors, parents, and school staff, as provided by the department or the center, and provide mentors with research-based training and technical assistance designed to help more pupils be successful virtual learners.

Michigan Virtual continues to advocate for strong mentors in online learning, a key leverage point that research has shown to be a critical factor in the success of online students. Using mentor data provided by CEPI, *Michigan Virtual* reached out to Michigan mentors to invite them to participate in the Online Mentor Community⁵³ that *Michigan Virtual* facilitates through its PLP. This community provides mentors access to the latest resources, a way to register for upcoming mentor trainings offered by *Michigan Virtual*, and a place to connect with other Michigan educators serving as mentors for online students. In February, *Michigan Virtual* mailed postcards⁵⁴ to over 2,000 Michigan mentors that shared five ways mentors could take their mentoring skills to the next level. One of the five ways is to join our online community of mentors which has nearly 300 members.

Michigan Virtual also worked with mentor leaders throughout the state to conduct onsite trainings at Michigan schools or ISDs. These face-to-face trainings allowed mentors to see how mentoring works in other programs, share challenges of practice, and develop and deepen their professional networks. *Michigan Virtual* conducted four face-to-face trainings for mentors of online learners during the 2019 fiscal year; these included trainings at Gull Lake High School, Genesee ISD, Delta-Schoolcraft ISD, and Grand Ledge High School (as part of the annual Collaboration of the Minds event hosted by *Michigan Virtual*). Attendance across all 4 events totaled 50 participants.

This summer and fall, *Michigan Virtual* has been working on developing a mobile app for use by students, parents, and mentors. The mobile app, which includes the ability to login using a web browser, represents a new way for *Michigan Virtual* to work with and communicate to students, parents, and mentors. Material currently featured in the Mentor Guide is planned for updating and repackaging for the mobile app in FY20.

Finally, *Michigan Virtual*, through its Outreach Coordinator – Mentors and Outreach Coordinator – Special Populations, analyzes the needs of schools and develops a support plan to assist mentors by providing training, resources, best practices, and consultations throughout the school year specifically focused on increasing student achievement in online learning.

2(b)(vii) Convene focus groups and conduct annual surveys of teachers, administrators, pupils, parents, and others to identify barriers and opportunities related to virtual learning.

Michigan Virtual contracted with Public Sector Consultants Inc. (PSC) to conduct surveys with 600 Michigan adults and 400 Michigan college students as part of ongoing public opinion research designed to better understand the opinions, preferences, and beliefs of Michigan residents about online learning opportunities for high school students in the state. The adult survey was a follow-up to similar polls conducted by PSC in 2014, 2015, 2016, and 2017, and was designed to include common questions for comparison. The college student survey, new in 2017, included questions about their specific experiences with online learning in high school and college. Taken together, these surveys allow for continued monitoring of opinion trends about online learning while providing important context about the experiences of current college students.⁵⁵

During the 2018-19 school year, *Michigan Virtual* held student focus groups at four Michigan high schools. In these, we heard from a total of 32 students about why they chose to take an online course, what they liked and disliked about online learning, and what opportunities they saw for improving online experiences. We also conducted end of course surveys for each of our online student classes and professional learning courses. This produced feedback from more than 14,500 professionals (including teachers, support staff, and administrators) and 4,650 students. An end-of-year survey of online Mentors who support students in *Michigan Virtual* courses also resulted in 160 responses with feedback on what works and what could be improved for those supporting students in online courses.

Michigan Virtual conducted an additional survey of schools that was aimed at gaining a deeper understanding of the factors that impact online learner success. Specifically, the *MVLR* research team distributed an online questionnaire to 134 schools and districts throughout the state to collect data specific to how these schools and districts are designing their online learning programs and how they are supporting students, teachers and mentors in their individual roles within the programs. Meaningful information was obtained through the questionnaire, and follow-up interviews with a total of nine schools and districts representing teachers, guidance counselors, mentors, and school-level administrators were conducted. These data are currently being used in the development of strategies and solutions that are aimed at helping all schools and districts throughout the state of Michigan increase the course pass rate of their virtual learners.

2(b)(viii) Produce an annual consumer awareness report for schools and parents about effective virtual education providers and education delivery models, performance data, cost structures, and research trends.

Michigan Virtual continued to maintain and update its consumer awareness report⁵⁶ twice annually. The updates are completed in the fall and in the spring. The report, which is listed as available on the Micourses website, contains sections Background, Providers and Delivery Models, Performance Data, Cost Structures, Research Trends, Conclusions and Resources. The purpose of this report is to make consumers aware of the status of online learning in Michigan and is specifically designed to inform parents, school personnel, and school board members of the nature of online learning options, their effectiveness for Michigan students, the cost of these programs and current trends.

2(b)(ix) Provide an internet-based platform that educators can use to create student-centric learning tools and resources for sharing in the state's open educational resource repository and facilitate a user network that assists educators in using the content creation platform and state repository for open educational resources. As part of this initiative, the Michigan Virtual University shall work collaboratively with districts and intermediate districts to establish a plan to make available virtual resources that align to Michigan's K-12 curriculum standards for use by students, educators, and parents.

Michigan Virtual has been supporting the #GoOpen Michigan initiative⁵⁷ through work in the areas of vetting content and professional development. Utilizing resources provided by the #GoOpen Michigan professional development group, *Michigan Virtual* has built a free, four-SCECH course,⁵⁸ available in the PLP, for those interested in learning more about Open Educational Resources. The course includes how and why to use them, where to find them, and how to incorporate them. In addition, *Michigan Virtual* staff serve on strategy and subcommittee teams for #GoOpen. During the 2019 fiscal year, *Michigan Virtual* created and shared more than 1,000 *Michigan Virtual* learning objects in the GoOpenMichigan website.⁵⁹

2(b)(x) Create and maintain a public statewide catalog of virtual learning courses being offered by all public schools and community colleges in this state. The Michigan Virtual Learning Research Institute shall identify and develop a list of nationally recognized best practices for virtual learning and use this list to support reviews of virtual course vendors, courses, and instructional practices. The Michigan Virtual Learning Research Institute shall also provide a mechanism for intermediate districts to use the identified best practices to review content offered by constituent districts. The Michigan Virtual Learning Research Institute shall review the virtual course offerings of the Michigan Virtual University, and make the results from these reviews available to the public as part of the statewide catalog. The Michigan Virtual Learning Research Institute shall ensure that the statewide catalog is made available to the public on the Michigan Virtual University website and shall allow the ability to link it to each district's website as provided for in section 21f. The statewide catalog shall also contain all of the following:

(A) The number of enrollments in each virtual course in the immediately preceding school year.

(B) The number of enrollments that earned 60% or more of the total course points for each virtual course in the immediately preceding school year.

(C) The completion rate for each virtual course.

The statewide catalog of online courses⁶⁰ is continually maintained by *Michigan Virtual* and allows districts and third-party providers to input course syllabi, course offerings, course reviews, and performance data. In September of each year, *Michigan Virtual* requests completion data from districts offering courses through the statewide catalog and offers to batch upload large data files for those districts.

Courses input into the catalog are required to undergo an online course review. The statewide catalog website allows the district catalog manager to manually create or update the course review results or to create performance data for a school year in individual courses through the interface.

In anticipation of the release of the National Standards for Quality Online Courses⁶¹ which were released in October 2019, *Michigan Virtual* developed a plan to incorporate the new standards into the statewide catalog. *Michigan Virtual* intends to add the new standards to the catalog during the 2019-2020 fiscal year so that schools have the option to review their courses using the new standards. *Michigan Virtual* will continue, for the near future, to allow the old standards to be used.

Michigan Virtual also sent 10 semester-length student courses through a third-party quality review process.⁶² Quality Matters, a nationally-recognized and respected organization, certified each of the courses as passing their standards for quality online courses. This independent review of quality, is used to share ratings on *Michigan Virtual* courses in the catalog. To date, *Michigan Virtual* has 75 student courses that have earned Quality Matters certification.

2(b)(xi) - Support registration, payment services, and transcript functionality for the statewide catalog and train key stakeholders on how to use new features.

Michigan Virtual provided personalized support to users of the statewide course catalog. User support included creating new district catalog administrators and new vendors, uploading completion data, providing database support for reporting and for managing course offerings. Training is provided as requested and a webinar recording is accessible as a training resource. More than 50 knowledge base articles are maintained which include step-by-step instructions for districts on how to allow and accept enrollments through the statewide catalog, how to manage payment options, and how to communicate student performance through the system.⁶³

2(b)(xii) Collaborate with key stakeholders to examine district level accountability and teacher effectiveness issues related to online learning under section 21f and make findings and recommendations publicly available.

Administrators at *Michigan Virtual* developed and piloted a modified Danielson evaluation rubric in the 2017-18 school year evaluation cycle with a small group of full-time instructors. Based on the results of the pilot and feedback from instructors and administrators, the evaluation rubric was further honed to better represent best practices in online teaching. The 2018-19 evaluation cycle incorporated the Danielson rubric to all *Michigan Virtual* instructors, both full-time and part-time, with the goal of continuous improvement in online teaching practices.

The evaluation effort has not solely focused on *Michigan Virtual* teachers. Through the Collaborative partnerships that *Michigan Virtual* has established, we have provided support services and resources to Gull Lake Schools, St. Clair County and Lakeshore Schools. These resources were provided in an effort to help support the local evaluation of teachers working in an online format for the local school or system of schools. Our goal is to establish additional Collaborative partners in this format and provide similar resources in subsequent years. *Michigan Virtual* staff have also presented on its teacher evaluation system during a webinar and conference session.

Michigan Virtual has also been working closely with Michigan districts and CEPI to facilitate the reporting of virtual instructors, including their teacher effectiveness ratings, in the CEPI REP Report.⁶⁴ In coordination with CEPI, *Michigan Virtual* has developed a streamlined process whereby districts can download their virtual learning and teacher data for easy upload to meet the CEPI REP reporting requirements. This reporting requirement ensures a more complete report on virtual learning in the state.

Michigan Virtual is also working on teacher effectiveness challenges that impact online instructors, particularly those working with *Michigan Virtual* related to the current REP reporting system for teacher effectiveness. Currently, local schools are required to identify the *Michigan Virtual* teacher as the teacher of record for their local "count day" reporting. Due to this requirement, *Michigan Virtual* teachers appear to have taught at dozens upon dozens of schools across the State in a single year. In addition, each of those local schools is required to provide an effectiveness rating for the teacher. While *Michigan Virtual* currently conducts annual evaluations of its teachers and reports them to the local school, there is nothing currently preventing a school from assigning its own rating.

An additional challenge lies in the multiple ratings that a teacher can receive in one year when they work for a local school and *Michigan Virtual* (or other similar service provider). A local school may rate a teacher lower than *Michigan Virtual* leading to potential issues when removing the teacher due to effectiveness. Likewise, *Michigan Virtual* may rate a teacher lower than the local school leading to a group of alternative problems. Neither of these scenarios is ideal for the State or the teacher. The possible identification of a 'virtual' rating and a 'traditional' rating may be a resolution. *Michigan Virtual* continues to work with CEPI to try to identify solutions to these challenges.

2(b)(xiii) - Provide a report on the activities of the Michigan Virtual Learning Research Institute.

The "Research Institute" section of this report provides the required reporting for *MVLR*.

Appendix A - Michigan Virtual Student Enrollment Data

Figure 1. 2018-19 Districts Served by Michigan Virtual with Student Online Courses

LEA Districts:

Airport Community Schools	Boyne City Public Schools	Davison Community Schools
Alanson Public Schools	Brandon S.D., Oakland/Lapeer	Dearborn City School District
Alba Public Schools	Breckenridge Community S.	Deckerville Community S.D.
Alcona Community Schools	Breitung Township S.D.	DeWitt Public Schools
Allegan Public Schools	Bridgman Public Schools	Dexter Community S.D.
Allen Park Public Schools	Brighton Area Schools	Dowagiac Union School District
Allendale Public Schools	Brimley Area Schools	Dryden Community Schools
Alma Public Schools	Brown City Community Schools	Durand Area Schools
Almont Community Schools	Buchanan Community Schools	East China School District
Alpena Public Schools	Bullock Creek School District	East Grand Rapids Public S.
Anchor Bay School District	Byron Area Schools	East Lansing School District
Ann Arbor Public Schools	Byron Center Public Schools	Eaton Rapids Public Schools
Armada Area Schools	Cadillac Area Schools	Edwardsburg Public Schools
Athens Area Schools	Caledonia Community Schools	Elk Rapids Schools
Avondale School District	Carman-Ainsworth C. S.	Engadine Consolidated Schools
Bad Axe Public Schools	Caro Community Schools	Escanaba Area Public Schools
Baldwin Community Schools	Carson City-Crystal Area S.	Ewart Public Schools
Bangor Public Schools	Caseville Public Schools	Fairview Area School District
Bath Community Schools	Cass City Public Schools	Farmington Public S.D.
Battle Creek Public Schools	Cedar Springs Public Schools	Fennville Public Schools
Bay City School District	Centreville Public Schools	Fenton Area Public Schools
Beal City Public Schools	Charlevoix Public Schools	Ferndale Public Schools
Bear Lake Schools	Charlotte Public Schools	Flushing Community Schools
Beaver Island Community S.	Cheboygan Area Schools	Forest Hills Public Schools
Beaverton Rural Schools	Chelsea School District	Forest Park School District
Bedford Public Schools	Chippewa Hills School District	Fowler Public Schools
Belding Area School District	Chippewa Valley Schools	Fowlerville Community Schools
Bellaire Public Schools	Clarkston Community S.D.	Frankenmuth School District
Bellevue Community Schools	Clinton Community Schools	Frankfort-Elberta Area Schools
Bentley Community S.D.	Clio Area School District	Freeland Community S.D.
Benzie County Central Schools	Coldwater Community Schools	Fremont Public School District
Berkley School District	Coloma Community Schools	Fruitport Community Schools
Berrien Springs Public Schools	Comstock Public Schools	Fulton Schools
Big Bay De Noc School District	Concord Community Schools	Galesburg-Augusta C. S.
Birch Run Area Schools	Constantine Public S.D.	Gaylord Community Schools
Birmingham Public Schools	Coopersville Area Public S.D.	Gibraltar School District
Blissfield Community Schools	Crawford AuSable Schools	Gladwin Community Schools
Bloomfield Hills Schools	Crestwood School District	Glen Lake Community Schools
Bloomington Public S.D.	Dansville Schools	Gobles Public School District

Grand Blanc Community S.	Kearsley Community S.D.	Meridian Public Schools
Grand Haven Area Public S.	Kelloggsville Public Schools	Merrill Community Schools
Grand Ledge Public Schools	Kenowa Hills Public Schools	Mesick Consolidated Schools
Grandville Public Schools	Kent City Community Schools	Michigan Center School District
Grass Lake Community Schools	Kentwood Public Schools	Midland Public Schools
Greenville Public Schools	Kingsley Area Schools	Milan Area Schools
Grosse Ile Township Schools	Kingston Community S.D.	Millington Community Schools
Grosse Pointe Public Schools	L'Anse Area Schools	Monroe Public Schools
Gull Lake Community Schools	L'Anse Creuse Public Schools	Montabella Community S.
Hamilton Community Schools	Laingsburg Community S.	Montague Area Public Schools
Hancock Public Schools	Lake Fenton Community S.	Muskegon, P.S. of the City of
Hanover-Horton School District	Lake Linden-Hubbell S.D.	Negaunee Public Schools
Harbor Springs School District	Lake Orion Community Schools	New Lothrop Area Public S.
Harper Creek Community S.	Lake Shore Public S. (Macomb)	Niles Community Schools
Harper Woods, The School	Lakeshore S.D. (Berrien)	North Branch Area Schools
District of the City of	Lakeview Public S. (Macomb)	North Central Area Schools
Hartford Public Schools	Lakeview S.D. (Calhoun)	North Dickinson County S.
Hartland Consolidated Schools	Lakeville Community S.D.	North Muskegon Public S.
Haslett Public Schools	Lakewood Public Schools	Northport Public School District
Hastings Area School District	Lansing Public School District	Northview Public Schools
Hemlock Public School District	Lawrence Public Schools	Northville Public Schools
Hillman Community Schools	Lawton Community S.D.	Novi Community School District
Holland City School District	Leland Public School District	Oakridge Public Schools
Holly Area School District	Leslie Public Schools	Okemos Public Schools
Holt Public Schools	Lincoln Consolidated S.D.	Olivet Community Schools
Hopkins Public Schools	Livonia Public Schools S.D.	Onekama Consolidated S.
Houghton Lake Community S.	Ludington Area School District	Onsted Community Schools
Houghton-Portage Twp. S.D.	Mackinac Island Public Schools	Ontonagon Area Schools
Howell Public Schools	Mackinaw City Public Schools	Orchard View Schools
Hudson Area Schools	Madison S.D. (Lenawee)	Oscoda Area Schools
Hudsonville Public S.D.	Manchester Community S.	Otsego Public Schools
Huron School District	Manistee Area Public Schools	Ovid-Elsie Area Schools
Huron Valley Schools	Manistique Area Schools	Owosso Public Schools
Imlay City Community Schools	Marion Public Schools	Parchment School District
Inland Lakes Schools	Marlette Community Schools	Paw Paw Public School District
Ionia Public Schools	Marquette Area Public Schools	Pennfield Schools
Iron Mountain Public Schools	Marshall Public Schools	Perry Public Schools
Ishpeming P.S.D. No. 1	Martin Public Schools	Pewamo-Westphalia C.S.
Ithaca Public Schools	Marysville Public Schools	Pickford Public Schools
Jackson Public Schools	Mason Public S. (Ingham)	Pinckney Community Schools
Jenison Public Schools	Mattawan Consolidated School	Plainwell Community Schools
Johannesburg-Lewiston Area S.	Memphis Community Schools	Plymouth-Canton C.S.
Kalamazoo Public Schools	Mendon Community S.D.	Port Huron Area School District
Kalkaska Public Schools	Menominee Area Public S.	Portage Public Schools

Portland Public Schools
Pottersville Public Schools
Public Schools of Calumet,
Laurium & Keweenaw
Quincy Community Schools
Rapid River Public Schools
Ravenna Public Schools
Reading Community Schools
Reed City Area Public Schools
Reeths-Puffer Schools
Republic-Michigamme Schools
Richmond Community Schools
Rochester Community S.D.
Rockford Public Schools
Rogers City Area Schools
Romeo Community Schools
Roscommon Area Public S.
Royal Oak Schools
Rudyard Area Schools
Saginaw, S.D. of the City of
Saline Area Schools
Sand Creek Community S.
Sandusky Community S.D.
Saranac Community Schools
Saugatuck Public Schools
Sault Ste. Marie Area Schools
Schoolcraft Community S.
Shelby Public Schools

Shepherd Public Schools
South Haven Public Schools
South Lake Schools
South Lyon Community S.
South Redford School District
Southfield Public S.D.
Southgate Community S.D.
Sparta Area Schools
Spring Lake Public Schools
Springport Public Schools
St. Ignace Area Schools
St. Johns Public Schools
Standish-Sterling Community S.
Stockbridge Community S.
Sturgis Public Schools
Summerfield Schools
Superior Central School District
Suttons Bay Public Schools
Swan Valley School District
Swartz Creek Community S.
Tahquamenon Area Schools
Tecumseh Public Schools
Thornapple Kellogg S.D.
Three Rivers Community S.
Traverse City Area Public S.
Trenton Public Schools
Tri County Area Schools
Uby Community Schools

Union City Community Schools
Unionville-Sebewaing Area S.D.
Utica Community Schools
Van Buren Public Schools
Vanderbilt Area Schools
Vandercook Lake Public S.
Vestaburg Community Schools
Vicksburg Community Schools
Walkerville Public Schools
Walled Lake Consolidated S.
Warren Woods Public Schools
Waterford School District
Watersmeet Township S.D.
Watervliet School District
Waverly Community Schools
Wayne-Westland C.S.D.
West Bloomfield School District
West Branch-Rose City Area S.
West Iron County Public S.
West Ottawa Public S.D.
Western School District
Whitehall District Schools
Whitmore Lake Public S.D.
Whittemore-Prescott Area S.
Williamston Community S.
Woodhaven-Brownstown S.D.
Yale Public Schools
Zeeland Public Schools

PSA Districts

Achieve Charter Academy
Arbor Preparatory High School
Black River Public School
Blue Water Middle College
Canton Charter Academy
Canton Preparatory H.S.
Chandler Park Academy
Charlevoix Montessori
Academy for the Arts
Charlton Heston Academy

Charyl Stockwell Academy
Concord Academy - Boyne
Cross Creek Charter Academy
DeTour Arts and Technology A.
Genesee STEM Academy
Grand River Preparatory H.S.
Grand Traverse Academy
Henry Ford Academy: School
for Creative Studies
Honey Creek Community S.

Kensington Woods Schools
LifeTech Academy
Midland Academy of Advanced
and Creative Studies
New School High
NexTech H.S. of Lansing
Taylor Preparatory High School
Wellspring Preparatory H.S.
West Michigan Aviation A.

Nonpublic Schools

All Saints Central School
Austin Catholic High School
Calvary Baptist Academy
Cardinal Mooney Catholic S.
Catholic Central High School
Detroit Christian Schools of
Excellence
Divine Child High School
Everest Academy
Farber Hebrew Day School
Fr. Gabriel Richard H.S.
Gabriel Richard Catholic H.S.
Grand Rapids Christian H.S.
Holland Christian High School

Interlochen Arts Academy
Jackson Christian School
Kalamazoo Christian H.S.
Lansing Catholic Central H.S.
Lansing Christian School
Muskegon Catholic Cent. H.S.
Notre Dame Preparatory S.
Oakland Christian School
Plymouth Christian Academy
Regina High School
Saint John Paul II Cath. Acad.
Shrine High School
South Christian High School
Southfield Christian School

St Mary School-Westphalia
St. Francis High School
St. Gerard School
St. Mary Cathedral School -
Gaylord
St. Mary Catholic School -
Sault Sainte Marie
St. Mary School-Lake Leelanau
St. Patrick School
Traverse City Christian School
Unity Christian High School
Valley Lutheran High School
Wixom Christian School

Figure 2. 2018-19 Michigan Virtual ISD, LEA, PSA District and Nonpublic Schools with Student Enrollments

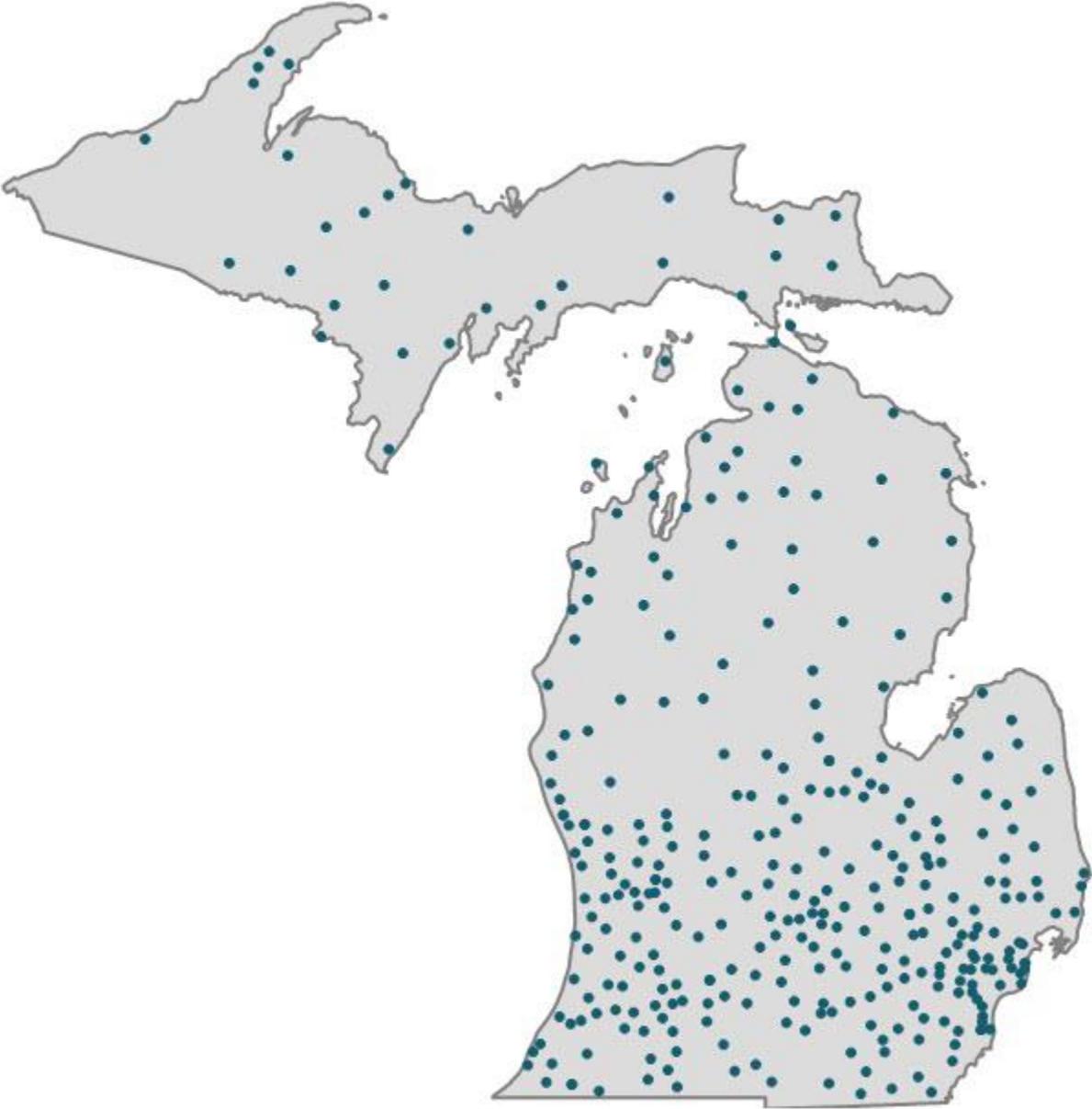


Figure 3. 2018-19 Michigan Virtual Student Courses Offered with Performance Data

NCES Subject Area	Course Name	Enroll Count	Pass Rate
Business and Marketing	Accounting A	168	81%
Business and Marketing	Accounting B	56	89%
Business and Marketing	Business Ethics	291	89%
Business and Marketing	Entrepreneurship	259	79%
Business and Marketing	Hospitality & Tourism: Traveling the Globe	152	93%
Business and Marketing	Sports and Entertainment Marketing	283	92%
Commun. & Audio/Visual Tech.	Journalism (Advanced)	14	71%
Commun. & Audio/Visual Tech.	Journalism (Introduction)	105	87%
Computer and Information Sciences	Adv Prog: Game Design & Animation	83	61%
Computer and Information Sciences	Advanced Web Design: JavaScript	40	90%
Computer and Information Sciences	AP Computer Science A (A)	175	87%
Computer and Information Sciences	AP Computer Science A (B)	130	94%
Computer and Information Sciences	AP Computer Science Principles (A)	28	93%
Computer and Information Sciences	AP Computer Science Principles (B)	26	88%
Computer and Information Sciences	Basic Web Design: HTML & CSS	135	65%
Computer and Information Sciences	Digital Information Technology A	75	91%
Computer and Information Sciences	Digital Information Technology B	18	94%
Computer and Information Sciences	Digital Literacy & Programming (18 Wks)	14	64%
Computer and Information Sciences	Foundations of Programming A	247	91%
Computer and Information Sciences	Foundations of Programming B	89	93%
Computer and Information Sciences	Social Media	228	85%
Engineering and Technology	Bioethics	141	92%
English Language and Literature	AP English Lang. and Composition (A)	45	89%
English Language and Literature	AP English Lang. and Composition (B)	44	84%
English Language and Literature	AP English Lit. and Composition (A)	66	83%
English Language and Literature	AP English Lit. and Composition (B)	54	87%
English Language and Literature	Composition (Advanced)	37	92%
English Language and Literature	Composition (Beginning)	106	73%
English Language and Literature	Language Arts A (6th Grade)	<10	50%
English Language and Literature	Language Arts A (7th Grade)	22	55%
English Language and Literature	Language Arts A (8th Grade)	13	69%

NCES Subject Area	Course Name	Enroll Count	Pass Rate
English Language and Literature	Language Arts B (6th Grade)	<10	100%
English Language and Literature	Language Arts B (7th Grade)	14	71%
English Language and Literature	Language Arts B (8th Grade)	12	92%
English Language and Literature	EdReady English (Grades 8-9)	<10	NA
English Language and Literature	EdReady English (Grades 10-12)	<10	NA
English Language and Literature	Essentials H.S. English 1A	<10	60%
English Language and Literature	ELA 9A: Intro to Literature Essentials	21	38%
English Language and Literature	ELA 9B: Intro to Literature Essentials	25	68%
English Language and Literature	English 9A	64	55%
English Language and Literature	English 9B	71	59%
English Language and Literature	ELA 10A: World Literature Essentials	28	50%
English Language and Literature	ELA 10B: World Literature Essentials	28	50%
English Language and Literature	English 10A	82	49%
English Language and Literature	English 10B	81	78%
English Language and Literature	ELA 11A: American Literature Essentials	45	71%
English Language and Literature	ELA 11B: American Literature Essentials	35	60%
English Language and Literature	American Literature A - English 11-12	260	83%
English Language and Literature	American Literature B - English 11-12	233	83%
English Language and Literature	British Literature A - English 11-12	220	69%
English Language and Literature	British Literature B - English 11-12	179	84%
English Language and Literature	ELA 12A: British Literature Essentials	33	70%
English Language and Literature	ELA 12B: British Literature Essentials	21	71%
English Language and Literature	Mythology and Folklore: Legendary Tales	300	93%
English Language and Literature	Reading for College Success	67	87%
English Language and Literature	World Literature	63	79%
Fine and Performing Arts	AP Art History (A)	28	82%
Fine and Performing Arts	AP Art History (B)	21	95%
Fine and Performing Arts	Digital Photography	191	85%
Fine and Performing Arts	Film Studies: American Film Survey	269	83%
Fine and Performing Arts	Guitar 1A	75	77%
Fine and Performing Arts	Guitar 1B	<10	78%
Fine and Performing Arts	Middle School Guitar 1A	<10	100%
Fine and Performing Arts	Music Appreciation Odyssey	128	78%

NCES Subject Area	Course Name	Enroll Count	Pass Rate
Fine and Performing Arts	Visual Art Comprehension I	70	81%
Foreign Language and Literature	American Sign Language 1A	1,460	73%
Foreign Language and Literature	American Sign Language 1B	855	91%
Foreign Language and Literature	American Sign Language 2A	449	95%
Foreign Language and Literature	American Sign Language 2B	402	94%
Foreign Language and Literature	AP Chinese (A)	35	94%
Foreign Language and Literature	AP Chinese (B)	29	97%
Foreign Language and Literature	AP French (A)	13	69%
Foreign Language and Literature	AP French (B)	<10	75%
Foreign Language and Literature	AP Spanish (A)	56	79%
Foreign Language and Literature	AP Spanish (B)	45	91%
Foreign Language and Literature	Chinese 1A	60	82%
Foreign Language and Literature	Chinese 1B	39	95%
Foreign Language and Literature	Chinese 2A	43	81%
Foreign Language and Literature	Chinese 2B	27	93%
Foreign Language and Literature	Chinese 3A	42	95%
Foreign Language and Literature	Chinese 3B	36	94%
Foreign Language and Literature	Chinese 4A	23	100%
Foreign Language and Literature	Chinese 4B	27	93%
Foreign Language and Literature	French 1A	212	74%
Foreign Language and Literature	French 1A (Grades 6-8)	17	88%
Foreign Language and Literature	French 1B	133	87%
Foreign Language and Literature	French 1B (Grades 6-8)	13	85%
Foreign Language and Literature	French 2A	176	75%
Foreign Language and Literature	French 2A (Grades 6-8)	<10	100%
Foreign Language and Literature	French 2B	146	89%
Foreign Language and Literature	French 2B (Grades 6-8)	<10	<20%
Foreign Language and Literature	French 3A	49	65%
Foreign Language and Literature	French 3B	24	83%
Foreign Language and Literature	German 1A	327	61%
Foreign Language and Literature	German 1A (Grades 6-8)	20	40%
Foreign Language and Literature	German 1B	236	78%
Foreign Language and Literature	German 1B (Grades 6-8)	<10	100%

NCES Subject Area	Course Name	Enroll Count	Pass Rate
Foreign Language and Literature	German 2A	106	84%
Foreign Language and Literature	German 2A (Grades 6-8)	<10	100%
Foreign Language and Literature	German 2B	94	89%
Foreign Language and Literature	German 2B (Grades 6-8)	<10	100%
Foreign Language and Literature	Japanese 1A	245	79%
Foreign Language and Literature	Japanese 1B	152	84%
Foreign Language and Literature	Japanese 2A	70	89%
Foreign Language and Literature	Japanese 2B	54	87%
Foreign Language and Literature	Latin 1A	92	90%
Foreign Language and Literature	Latin 1B	60	95%
Foreign Language and Literature	Latin 2A	48	94%
Foreign Language and Literature	Latin 2B	55	98%
Foreign Language and Literature	Latin 3A	12	92%
Foreign Language and Literature	Latin 3B	<10	100%
Foreign Language and Literature	Spanish 1A	372	61%
Foreign Language and Literature	Spanish 1A (Grades 6-8)	38	71%
Foreign Language and Literature	Spanish 1B	207	87%
Foreign Language and Literature	Spanish 1B (Grades 6-8)	16	100%
Foreign Language and Literature	Spanish 2A	290	66%
Foreign Language and Literature	Spanish 2A (Grades 6-8)	<10	100%
Foreign Language and Literature	Spanish 2B	215	82%
Foreign Language and Literature	Spanish 2B (Grades 6-8)	<10	100%
Foreign Language and Literature	Spanish 3A	114	79%
Foreign Language and Literature	Spanish 3B	78	83%
Foreign Language and Literature	Spanish 4A	73	84%
Foreign Language and Literature	Spanish 4B	52	87%
Health Care Sciences	Medical Terminology	604	91%
Human Services	Success Skills for the Real World (18 Wks)	<10	<20%
Human Services	Success Skills for the Real World (9 Wks)	<10	<20%
Life and Physical Sciences	Anatomy and Physiology A	188	92%
Life and Physical Sciences	Anatomy and Physiology B	104	93%
Life and Physical Sciences	AP Biology (A)	63	87%
Life and Physical Sciences	AP Biology (B)	53	94%

NCES Subject Area	Course Name	Enroll Count	Pass Rate
Life and Physical Sciences	AP Chemistry (A)	45	67%
Life and Physical Sciences	AP Chemistry (B)	29	93%
Life and Physical Sciences	AP Environmental Science (A)	76	91%
Life and Physical Sciences	AP Environmental Science (B)	54	91%
Life and Physical Sciences	AP Physics 1 (A)	65	83%
Life and Physical Sciences	AP Physics 1 (B)	45	91%
Life and Physical Sciences	AP Physics 2 (A)	14	86%
Life and Physical Sciences	AP Physics 2 (B)	11	100%
Life and Physical Sciences	AP Physics C (A)	25	92%
Life and Physical Sciences	AP Physics C (B)	22	100%
Life and Physical Sciences	Astronomy	301	87%
Life and Physical Sciences	Biology A	125	76%
Life and Physical Sciences	Biology A Essentials	23	52%
Life and Physical Sciences	Biology B	112	82%
Life and Physical Sciences	Biology B Essentials	20	60%
Life and Physical Sciences	Chemistry A	139	50%
Life and Physical Sciences	Chemistry A Essentials	35	54%
Life and Physical Sciences	Chemistry B	129	60%
Life and Physical Sciences	Chemistry B Essentials	25	40%
Life and Physical Sciences	Earth Science A	129	68%
Life and Physical Sciences	Earth Science B	90	78%
Life and Physical Sciences	Environmental Science A	65	88%
Life and Physical Sciences	Environmental Science B	30	97%
Life and Physical Sciences	Oceanography A	238	87%
Life and Physical Sciences	Oceanography B	70	90%
Life and Physical Sciences	Physical Science A	44	61%
Life and Physical Sciences	Physical Science B	32	75%
Life and Physical Sciences	Physics A	114	89%
Life and Physical Sciences	Physics A Essentials	<10	29%
Life and Physical Sciences	Physics B	105	86%
Life and Physical Sciences	Science A (6th Grade)	<10	40%
Life and Physical Sciences	Science A (7th Grade)	16	56%
Life and Physical Sciences	Science A (8th Grade)	11	55%

NCES Subject Area	Course Name	Enroll Count	Pass Rate
Life and Physical Sciences	Science B (6th Grade)	<10	71%
Life and Physical Sciences	Science B (7th Grade)	12	92%
Life and Physical Sciences	Science B (8th Grade)	11	82%
Life and Physical Sciences	Veterinary Science: The Care of Animals	294	91%
Mathematics	Algebra 1 Testing Out	<10	NA
Mathematics	Algebra 1A	184	71%
Mathematics	Algebra 1A Essentials	12	25%
Mathematics	Algebra 1B	197	79%
Mathematics	Algebra 1B Essentials	52	40%
Mathematics	Algebra 2A	213	74%
Mathematics	Algebra 2A Essentials	41	61%
Mathematics	Algebra 2B	259	64%
Mathematics	Algebra 2B Essentials	40	85%
Mathematics	AP Calculus AB (A)	31	87%
Mathematics	AP Calculus AB (B)	18	89%
Mathematics	AP Calculus BC (A)	81	84%
Mathematics	AP Calculus BC (B)	54	89%
Mathematics	AP Statistics (A)	115	93%
Mathematics	AP Statistics (B)	106	88%
Mathematics	Calculus A	64	73%
Mathematics	Calculus B	36	92%
Mathematics	EdReady Math (4th Grade)	<10	NA
Mathematics	EdReady Math (5th Grade)	<10	NA
Mathematics	EdReady Math (6th Grade)	<10	NA
Mathematics	EdReady Math (7th Grade)	<10	NA
Mathematics	EdReady Math (8th Grade)	10	NA
Mathematics	EdReady Math (HS Algebra 1)	12	NA
Mathematics	EdReady Math (HS Algebra 2)	<10	NA
Mathematics	EdReady Math (HS Geometry)	<10	NA
Mathematics	Essentials Algebra 1A	12	67%
Mathematics	Essentials Algebra 1A - PILOT (2)	41	24%
Mathematics	Essentials Algebra 1A - PILOT (1)	42	33%
Mathematics	Geometry A	214	75%

NCES Subject Area	Course Name	Enroll Count	Pass Rate
Mathematics	Geometry A Essentials	25	56%
Mathematics	Geometry B	213	85%
Mathematics	Geometry B Essentials	33	48%
Mathematics	Mathematics A (6th Grade)	<10	63%
Mathematics	Mathematics A (7th Grade)	28	32%
Mathematics	Mathematics A (8th Grade Pre-Algebra)	18	33%
Mathematics	Mathematics B (6th Grade)	<10	78%
Mathematics	Mathematics B (7th Grade)	10	80%
Mathematics	Mathematics B (8th Grade Pre-Algebra)	12	75%
Mathematics	Mathematics in the Workplace	142	86%
Mathematics	Mathematics of Baseball	143	89%
Mathematics	Mathematics of Personal Finance	342	88%
Mathematics	Pre-Calculus A	130	85%
Mathematics	Pre-Calculus B	122	84%
Mathematics	Probability and Statistics A	113	84%
Mathematics	Probability and Statistics B	40	75%
Mathematics	Trigonometry	66	83%
Miscellaneous	Career Planning	461	92%
Miscellaneous	Careers - Find Your Future	365	85%
Miscellaneous	Employability Skills	364	89%
Miscellaneous	Leadership Skills Development	80	81%
Miscellaneous	Leadership Skills Development (A)	<10	100%
Miscellaneous	Leadership Skills Development (B)	<10	100%
Miscellaneous	PBIS (18 Weeks)	<10	67%
Miscellaneous	PBIS (9 Weeks)	18	33%
Miscellaneous	Study Skills	354	80%
Physical, Health, and Safety Ed.	Health Education	617	87%
Physical, Health, and Safety Ed.	Health Education (Abstinence Only)	99	91%
Physical, Health, and Safety Ed.	Health Education (Abs Only) Testing Out	<10	NA
Physical, Health, and Safety Ed.	Health Education Testing Out	48	NA
Physical, Health, and Safety Ed.	Personal Fitness	532	85%
Public, Protective, and Gov. Service	Forensic Science	359	82%
Religious Education and Theology	World Religions: Exploring Diversity	131	93%

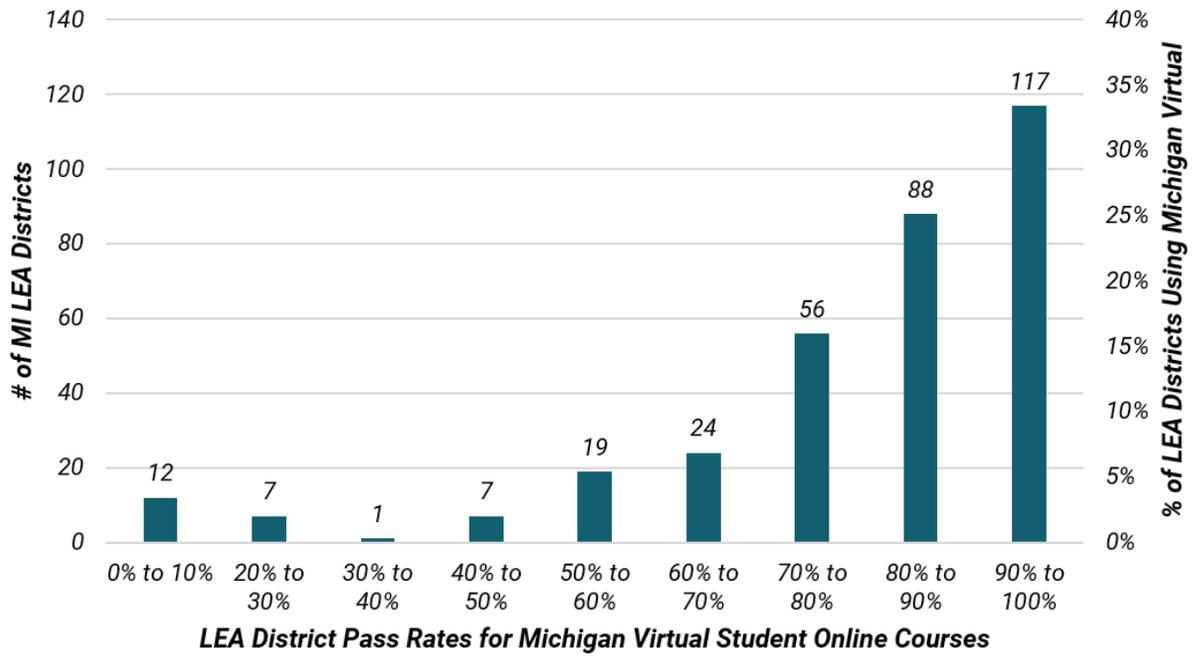
NCES Subject Area	Course Name	Enroll Count	Pass Rate
Social Sciences and History	American History A (8th Grade)	22	55%
Social Sciences and History	American History B (8th Grade)	17	88%
Social Sciences and History	Anthropology (Introduction)	106	90%
Social Sciences and History	Anthropology I	12	83%
Social Sciences and History	AP Human Geography (A)	22	100%
Social Sciences and History	AP Human Geography (B)	19	100%
Social Sciences and History	AP Macroeconomics	189	91%
Social Sciences and History	AP Microeconomics	146	95%
Social Sciences and History	AP Psychology (A)	288	85%
Social Sciences and History	AP Psychology (B)	226	92%
Social Sciences and History	AP U.S. Government and Politics	117	82%
Social Sciences and History	AP U.S. History (A)	66	77%
Social Sciences and History	AP U.S. History (B)	46	83%
Social Sciences and History	AP World History (A)	73	70%
Social Sciences and History	AP World History (B)	52	81%
Social Sciences and History	Archaeology: Detectives of the Past	53	87%
Social Sciences and History	Civics	612	89%
Social Sciences and History	Criminology	695	84%
Social Sciences and History	Economics	620	89%
Social Sciences and History	Economics Essentials	27	48%
Social Sciences and History	Middle School World History A	22	68%
Social Sciences and History	Middle School World History B	20	85%
Social Sciences and History	Modern World History & Geography A	23	35%
Social Sciences and History	Modern World History & Geography B	12	75%
Social Sciences and History	Native American History	84	85%
Social Sciences and History	Personal Finance for Young Adults	251	91%
Social Sciences and History	Philosophy: The Big Picture	126	89%
Social Sciences and History	Psychology	361	85%
Social Sciences and History	Sociology I: Introduction to Sociology	244	84%
Social Sciences and History	Sociology II: Social Problems	30	87%
Social Sciences and History	U.S. History A: 1877-Present Essentials	28	39%
Social Sciences and History	U.S. History and Geography A	211	76%
Social Sciences and History	U.S. History and Geography B	187	78%

NCES Subject Area	Course Name	Enroll Count	Pass Rate
Social Sciences and History	U.S. History B: 1877-Present Essentials	13	38%
Social Sciences and History	World History and Geography A	280	85%
Social Sciences and History	World History and Geography B	295	88%

Figure 4. 2018-19 Michigan Virtual Student Performance Data by NCES Subject Area

NCES Subject Area	Attempted Count	Withdrawn	Completed/Failed	Michigan Virtual Pass Rate	Statewide 17-18 Pass Rate
Business and Marketing	1,209	1%	12%	87%	69%
Communications & Audio/Visual Tech.	119	3%	12%	85%	63%
Computer and Information Sciences	1,288	2%	14%	85%	62%
Engineering and Technology	141	0%	8%	92%	64%
English Language and Literature	2,281	3%	20%	77%	51%
Fine and Performing Arts	794	2%	16%	82%	58%
Foreign Language and Literature	7,478	2%	17%	81%	58%
Health Care Sciences	604	1%	9%	91%	68%
Human Services	< 10	0%	100%	0%	78%
Life and Physical Sciences	2,983	2%	16%	81%	52%
Mathematics	3,266	3%	20%	77%	48%
Miscellaneous	1,656	2%	12%	86%	62%
Physical, Health, and Safety Education	1,248	2%	12%	86%	62%
Public, Protective, and Gov. Service	359	1%	16%	82%	69%
Religious Education and Theology	131	2%	5%	93%	85%
Social Sciences and History	5,595	2%	13%	85%	56%

Figure 5. 2018-19 Michigan Virtual Student Performance Data by LEA District



Appendix B - Michigan Virtual Professional Enrollment Data

Figure 6. 2018-19 Michigan Virtual Professional Learning Courses

Course Name	Enroll Count
#GoOpen: Open Educational Resources in Michigan	1,184
21st Century Skills	25
A to Z Grant Writing	<10
Acknowledgements in SWPBIS: Understanding the Why	<10
Active Shooter On Campus (A.L.I.C.E.)	159
Advanced Microsoft Excel 2010	<10
Aiding Students with Learning Disabilities	23
Anger Management & Effective Discipline to Prevent Violence, Part I	28
Anger Management & Effective Discipline to Prevent Violence, Part II	11
AOD: Catechist Certification - Topic 2	73
AOD: Catechist Certification - Topic 3	71
AOD: Catechist Certification - Topic 5	66
AOD: Catechist Certification - Topic 6	68
Art Safety for Educational Facilities	81
Assessment and Grading for Student Achievement	<10
Assessment and the Common Core State Standards	<10
Assessments in the Blended Classroom	33
Authentic Innovation in the 21st Century Classroom	<10
Basic First Aid	653
Becoming a Culturally Responsive Teacher	15
Becoming a Reflective Teacher	<10
Beginning Conversational French	<10
Behavior Science and the Three Term Contingency	<10
Best Practices for Teaching African American Boys	<10
Big Ideas of Early Reading: Fluency	<10
Big Ideas of Early Reading: Phonics	<10
Big Ideas of Early Reading: Vocabulary	<10
Blended Classroom Design	64
Blogging and Podcasting for Beginners	14
Bloodborne Pathogens	7,970
Bloodborne Pathogens for Research and Campus Activities	605
Brightspace Instructor Training	<10
Building a College List	<10
Building Academic Language, Grades 7-12	<10
Building Academic Language, Grades K-6	<10
Building Level Implementation	<10
Building Teams That Work	11
Campus Emergency Action Plans	72
Changing Minds to Address Poverty in the Classroom	1,529

Course Name	Enroll Count
Character Education, Part I	<10
Character Education, Part II	<10
Charlotte Danielson's A Framework for Teaching	<10
Chemical Hygiene Plan	13
Chemical Safety	44
Coaches Corner	<10
College Counseling for 9-10 Graders	<10
Common Core in ELA: Instructional Shifts for Effective Implementation, Grades 3-5	<10
Common Core in Mathematics: Instructional Shifts for Effective Implementation, Grades 6-8	<10
Common Core in Mathematics: Instructional Shifts for Effective Implementation, Grades 9-12	<10
Common Core Standards for English Language Arts K-5	<10
Common Core State Standards in Literacy, Grades 3-8	<10
Common Core State Standards in Mathematics, Grades 3 - 8	<10
Computer Skills for the Workplace	<10
Conflict Resolution Strategies	1,53
Content Literacy: Grades 6-12	<10
Correcting Behavior Fluently	<10
Counseling in the College Selection Process	72
CPR Refresher	400
Creating a Classroom Website	<10
Creating a Professional Learning Community at Work: Foundational Concepts and Practice	<10
Creating Classroom Centers	18
Creating the Inclusive Classroom: Strategies for Success	<10
Curriculum Leadership Institute - Phase I	25
Curriculum Leadership Institute - Phase II	<10
Data, Data Everywhere	<10
Data-Driven Decision Making	<10
Deeper Dialogue: Teaching with Poverty in Mind Chapter 1	187
Deeper Dialogue: Teaching with Poverty in Mind Chapter 2	105
Deeper Dialogue: Teaching with Poverty in Mind Chapter 3	62
Deeper Dialogue: Teaching with Poverty in Mind Chapter 4	60
Deeper Dialogue: Teaching with Poverty in Mind Chapter 5	57
Deeper Dialogue: Teaching with Poverty in Mind Chapter 6	56
Designing and Developing in the Blended Classroom	<10
Developing Effective Course Announcements	<10
Differentiated Instruction in the Classroom	11
Differentiated Instruction: Maximizing Learning for All	1,543
Differentiating Instruction Using the Common Core State Standards	<10
Differentiating K-12 Assessments	<10
Differentiation and Assessment for Middle School	<10

Course Name	Enroll Count
Differentiation and the Brain	11
Digital Content in the Blended Classroom	24
Discover Sign Language	10
Discrimination in the Workplace	66
Diversity in the Workplace	104
DLN: Foundations of Restorative Practices & Circles	<10
DLN: Mentoring through Coaching Certification	10
DLN: Observation & Feedback	<10
DLN: School Culture: Creating an Inclusive Learning Environment	<10
DLN: School Improvement	<10
DLN: School Law 101: What Principals Must Know	<10
DLN: School Safety Best Practices	<10
DLN: Understanding Human Behavior Through Restorative Practices	<10
Driving On and Off Campus	<10
Early Literacy Coaches Online Community	285
Early Literacy Resources	10
Early Warning Systems Module 1	<10
Early Warning Systems Module 2	<10
Educator Evaluation in MI: Evidence of Reflective Practice	306
Educator Evaluation in MI: Measurement of Student Growth	678
Educator Evaluation in MI: Preparing for Formative Review	84
Educator Evaluation in MI: Preparing for Summative Evaluation	54
Educator Evaluation in MI: Unpacking the Framework	375
Educator Evaluation: Self-Assessment and Goal Setting	551
Effective College Counseling Meetings with Juniors	<10
Effective Relationships with College Admissions Officers	<10
Elementary Reading Intervention Strategies	16
Emergency Action Plans for Office Employees	84
Emergency Response	336
Empowering Students With Disabilities	15
Engaging Students with Interactive Content Using Michigan Virtual's Makerspace	131
Enhancing Language Development in Childhood	<10
Enhancing Your Curriculum through Art	<10
Essential Instructional Practices in Early Literacy: K-3 Essential 1	2,197
Essential Instructional Practices in Early Literacy: K-3 Essential 10	971
Essential Instructional Practices in Early Literacy: K-3 Essential 2	1,473
Essential Instructional Practices in Early Literacy: K-3 Essential 3	1,693
Essential Instructional Practices in Early Literacy: K-3 Essential 4	1,251
Essential Instructional Practices in Early Literacy: K-3 Essential 5	1,328
Essential Instructional Practices in Early Literacy: K-3 Essential 6	1,217
Essential Instructional Practices in Early Literacy: K-3 Essential 7	1,241
Essential Instructional Practices in Early Literacy: K-3 Essential 8	1,047

Course Name	Enroll Count
Essential Instructional Practices in Early Literacy: K-3 Essential 9	991
Essential Instructional Practices in Early Literacy: Pre-K Essential 1	1,537
Essential Instructional Practices in Early Literacy: Pre-K Essential 10	797
Essential Instructional Practices in Early Literacy: Pre-K Essential 2	950
Essential Instructional Practices in Early Literacy: Pre-K Essential 3	780
Essential Instructional Practices in Early Literacy: Pre-K Essential 4	744
Essential Instructional Practices in Early Literacy: Pre-K Essential 5	772
Essential Instructional Practices in Early Literacy: Pre-K Essential 6	715
Essential Instructional Practices in Early Literacy: Pre-K Essential 7	729
Essential Instructional Practices in Early Literacy: Pre-K Essential 8	631
Essential Instructional Practices in Early Literacy: Pre-K Essential 9	668
Essential Instructional Practices in Early Literacy: School-wide and Center-wide Practices	579
Essentials Online Instructor Training	<10
FERPA - Family Educational Rights and Privacy Act	1,845
Fire Safety	76
Fire Safety On Campus	12
Flu Symptoms and Prevention Strategies	77
Food Safety	116
Formative Assessment 101	430
Formative Assessment and Standards-Based Grading	<10
General Safety Orientation	138
Get Assertive!	<10
Get Grants!	<10
Grading: A Guide to Effective Practice	<10
Grammar Refresher	27
Guided Reading and Writing: Strategies for Maximum Student Achievement	<10
Guided Reading: Strategies for the Differentiated Classroom	10
H5P Skills Training	17
Hand and Power Tool Safety	54
Hazard Communication	214
Hazardous Materials Classification	23
Hazardous Waste Awareness (RCRA)	44
HIPAA Compliance Training	341
Human Anatomy and Physiology	10
Human Anatomy and Physiology II	<10
ILC: Implementing Effective Instruction Non-Facilitated	692
Implementing Professional Learning Communities	70
Improving Instruction through Strategic Conversations with Teachers	<10
Individual Excellence	15
Instructional Practices with Technology 101	47
Integrating Technology in the Classroom	18

Course Name	Enroll Count
Interpersonal Communication	<10
Intro to Online Course Facilitation, 6-12	20
Intro to Online Teaching and Learning	<10
Introduction to Algebra	11
Introduction to Biology	<10
Introduction to Chemistry	<10
Introduction to Microsoft Excel 2010	<10
Introduction to Microsoft Excel 2013	<10
Introduction to Microsoft PowerPoint 2013	<10
Introduction to Microsoft Word 2013	<10
Introduction to OSHA	102
Introduction to Phenomenal Science	399
Introduction to Phenomenal Science, Grade 1	123
Introduction to Phenomenal Science, Grade 2	108
Introduction to Phenomenal Science, Grade 3	115
Introduction to Phenomenal Science, Grade 4	123
Introduction to Phenomenal Science, Grade 5	120
Introduction to Phenomenal Science, Grade K	132
Keys to Effective Communication	<10
Kitchen Equipment Safety	36
Laboratory Safety – Biological Hazards	48
Laboratory Safety – Chemical Hazards	<10
Laboratory Safety in Research and Education	<10
Lansing School District New Teacher Orientation	<10
Latex Allergy	25
Lawful Hiring Practices	13
Lawful Terminations and Employee Separation	15
Leadership	<10
learn.BLEND.lead	<10
MAC: Assessment Systems That Support 21st Century Learners	31
MAC: Assessment Uses & Users Microcredential	<10
MAC: Collaborative Inquiry	25
MAC: Developing a High Quality Balanced Assessment System	34
MAC: Developing Appropriate Assessments	61
MAC: Developing Clear Learning Targets Microcredential	<10
MAC: Formative Feedback Microcredential	<10
MAC: Making Meaning from Student Assessments	30
MAC: Selecting Appropriate Assessments	27
MAC: Test Blueprint Design	<10
MAC: Understanding the Formative Assessment Process	32
MAC: Understanding the Technical Concepts Used in Student Assessment	29
MAC: Using Assessment Data Well	28

Course Name	Enroll Count
Making Student Thinking Visible	<10
Manage It All: Students, Curriculum, and Time	15
MASA: Communications Microcredential	11
MASA: District Leadership Team Microcredential	<10
Mastering Public Speaking	<10
MDE Assessment Security	4,226
MDE Program Evaluation Tool	33
MDE Social Emotional Learning	26
Measuring Implementation Fidelity at the School Level	19
MEMSPA: Comprehensive Needs Assessment	16
MEMSPA: Developing Your Personal Mission	<10
MEMSPA: Leadership & Literacy	72
MEMSPA: Leading Student Engagement	<10
MEMSPA: Module 1 - Supporting Improvement with Systems	13
MEMSPA: School Vision for Learning	<10
Mentor Site Institute	48
Mentoring Students Enrolled in Online Essentials Courses	32
MI Excel Coaching: Being A Math Coach	237
MI Excel Coaching: Being A Reading Coach	331
MI Excel Coaching: Being A Science Coach	163
MI Excel Coaching: Being A Social Studies Coach	175
MI Excel Coaching: Being A Writing Coach	237
MI Excel Coaching: Module 1 - Coaching Basics	350
MI Excel Coaching: Module 2 - Using Data to Inform Instruction	256
MI Excel Coaching: Module 3 - Coaching Instructional Planning & Practice	216
MI Excel Coaching: Module 4 - Multi-Tiered System of Supports	258
Michigan Continuous School Improvement (MI-CSI)	172
Michigan's K-12 Virtual Learning Effectiveness Report	<10
Microsoft PowerPoint 2013 in the Classroom	<10
Motivating and Engaging Students	10
Motivating Underachievers Using Response to Intervention and Differentiated Instruction	<10
Music Made Easy	21
MyPD - 10 SCECH's	73
MyPD - 6 SCECH's	22
Occupational Safety and Health Programs	51
OD: Catechist Certification - Topic 1	82
OD: Catechist Certification - Topic 4	69
Office Safety	127
Online Mentor Community	48
Online Mentor Training	18
OSHA Reporting and Recordkeeping	12
PBIS Assessment Coordinator Certification Module	93

Course Name	Enroll Count
Personal Finance	<10
Personal Protective Equipment	101
Podcast PD	<10
Podcast PD: Google Forms, Failure-Free Failing & CBE	55
Podcast PD: Screencasting, the Future of Education	389
Portable Fire Extinguishers	19
POWERful Coaching	21
PTL: Application	222
PTL: Module 1	177
PTL: Module 2	146
PTL: Module 3	172
PTL: Module 4	95
PTL: Module 5	180
PTL: Module 6	168
PTL: Module 7	179
PTL: Module 8	147
PTL: Orientation	214
Pyramid Response to Intervention: How to Respond When Kids Don't Learn	<10
Ready, Set, Read!	12
Response to Intervention: Reading Strategies That Work	14
Run, Hide, Fight	236
SafetySkills Bloodborne Pathogens	4,770
Seclusion and Restraint	1,929
Sexual Harassment and Discrimination for Employees	1,261
Sexual Harassment Prevention for Managers	62
SIF and DIF 2.0 Overview Course	<10
Singapore Math Strategies: Advanced Model Drawing for Grades 6-9	<10
Singapore Math: Number Sense and Computational Strategies	12
Slips, Trips and Falls	21
So You Want to be an Instructional Designer?	<10
Social-Emotional Learning: Creating a Professional Culture Based on SEL	497
Social-Emotional Learning: Embedding SEL Schoolwide	416
Social-Emotional Learning: Integrating SEL Into Culturally Responsive Classrooms	468
Social-Emotional Learning: Introduction to SEL	921
Social-Emotional Learning: Trauma-Informed Support	1,231
Solving Classroom Discipline Problems	35
Solving Classroom Discipline Problems II	<10
Spanish in the Classroom	13
Speed Spanish	18
Speed Spanish II	<10
Speed Spanish III	<10
STEM.org Online Certification	<10

Course Name	Enroll Count
Student Risk Screening Scale	113
Supporting Struggling Students with Rigorous Instruction	<10
Surveys of Enacted Curriculum: Promoting a Culture of Growth and Support (Facilitator Training)	143
Survival Kit for New Teachers	<10
Survival Strategies for New Teachers, Grades 6-8	<10
Survival Strategies for New Teachers, Grades 9-12	<10
Survival Strategies for New Teachers, Grades K-5	<10
SWPBIS: Identifying 3-5 Behavioral Expectations	<10
Teaching Adult Learners	<10
Teaching English Language Learners Across the Curriculum, Part I	<10
Teaching English Language Learners Across the Curriculum, Part II	<10
Teaching High School Students	<10
Teaching Math: Grades 4-6	<10
Teaching Reading and Comprehension to English Learners, K-5	<10
Teaching Science: Grades 4-6	<10
Teaching Students With ADHD	23
Teaching Students With Autism: Strategies for Success	15
Teaching Writing: Grades 4-6	<10
Teaching, Learning, and Leading in the Digital Age	<10
Technology Applications for Teaching and Supporting the Struggling Reader	<10
The Creative Classroom	<10
The Differentiated Instruction and Response to Intervention Connection	<10
Title IX/Sexual Misconduct at Educational Facilities	1,000
Understanding Adolescents	<10
Understanding Blended Learning for School Leaders	<10
Understanding Culture and Race	<10
Understanding the Digital Generation	<10
Using Data for Meaningful Classroom Change	<10
Using Digital Media to Enhance Learning	<10
Using the Internet in the Classroom	<10
Using Web 2.0 in Teaching and Instruction	<10
Violence in the Workplace	104
Working With Lasers in Research and Education	<10
Writing Effective Counselor Letters for College	<10
Writing Essentials	<10
Writing for Children	<10

Figure 7. 2018-19 Districts Served by Michigan Virtual with Professional Learning in 2018-19

ISDs

Allegan Area ESA	Gogebic-Ontonagon ISD	Midland County ESA
Alpena-Montmorency Alcona ESD	Gratiot-Isabella RESD	Monroe ISD
Barry ISD	Hillsdale ISD	Montcalm Area ISD
Bay-Arenac ISD	Huron ISD	Muskegon Area ISD
Berrien RESA	Ingham ISD	Newaygo County RESA
Branch ISD	Ionia ISD	Oakland Schools
C.O.O.R. ISD	Iosco RESA	Ottawa Area ISD
Calhoun ISD	Jackson ISD	Saginaw ISD
Charlevoix-Emmet ISD	Kalamazoo RESA	Sanilac ISD
Cheb-Otsego-Presque Isle ESD	Kent ISD	Shiawassee Regional ESD
Clare-Gladwin Regional ESD	Lapeer ISD	St. Clair County RESA
Clinton County RESA	Lenawee ISD	St. Joseph County ISD
Copper Country ISD	Lewis Cass ISD	Traverse Bay Area ISD
Delta-Schoolcraft ISD	Livingston ESA	Tuscola ISD
Dickinson-Iron ISD	Macomb ISD	Van Buren ISD
Eastern Upper Peninsula ISD	Manistee ISD	Washtenaw ISD
Eaton RESA	Marquette-Alger RESA	Wayne RESA
Genesee ISD	Mecosta-Osceola ISD	West Shore ESD
	Menominee ISD	Wexford-Missaukee ISD

LEA Districts

Adams Township S.D.	Ashley Community Schools	Benton Harbor Area Schools
Addison Community Schools	Athens Area Schools	Benzie County Central Schools
Adrian Public Schools	Atherton Community Schools	Berkley School District
Airport Community Schools	Au Gres-Sims School District	Berlin Township S/D #3
Akron-Fairgrove Schools	Avondale School District	Berrien Springs Public Schools
Alanson Public Schools	Bad Axe Public Schools	Big Bay De Noc School District
Alba Public Schools	Baldwin Community Schools	Big Jackson School District
Albion Public Schools	Bangor Public S. (Van Buren)	Big Rapids Public Schools
Alcona Community Schools	Bangor Township Schools	Birch Run Area Schools
Algonac Community S.D.	Baraga Area Schools	Birmingham Public Schools
Allegan Public Schools	Bath Community Schools	Blissfield Community Schools
Allen Park Public Schools	Battle Creek Public Schools	Bloomfield Hills Schools
Allendale Public Schools	Bay City School District	Bloomington Public S.D.
Alma Public Schools	Beal City Public Schools	Boyne City Public Schools
Almont Community Schools	Bear Lake Schools	Brandon S.D. in the Counties of
Alpena Public Schools	Beaverton Rural Schools	Oakland and Lapeer
Anchor Bay School District	Bedford Public Schools	Brandywine Community S.
Ann Arbor Public Schools	Belding Area School District	Breckenridge Community S.
Arenac Eastern School District	Bellaire Public Schools	Breitung Township S.D.
Armada Area Schools	Bellevue Community Schools	Bridgeport-Spaulding C.S.D.
Arvon Township School District	Bentley Community S.D.	Bridgman Public Schools

Brighton Area Schools	Coldwater Community Schools	Elkton-Pigeon-Bay Port Laker S.
Brighton Shared Services	Coleman Community Schools	Ellsworth Community School
Brimley Area Schools	Coloma Community Schools	Engadine Consolidated Schools
Britton Deerfield Schools	Colon Community S.D.	Escanaba Area Public Schools
Bronson Community S.D.	Columbia School District	Essexville-Hampton Public S.
Brown City Community Schools	Comstock Park Public Schools	Ewart Public Schools
Buchanan Community Schools	Comstock Public Schools	Ewen-Trout Creek Cons. S.D.
Buckley Community Schools	Constantine Public S.D.	Fairview Area School District
Bullock Creek School District	Coopersville Area Public S.D.	Farmington Public S.D.
Byron Area Schools	Corunna Public Schools	Farwell Area Schools
Byron Center Public Schools	Covert Public Schools	Fennville Public Schools
Cadillac Area Public Schools	Crawford AuSable Schools	Fenton Area Public Schools
Caledonia Community Schools	Crestwood School District	Ferndale Public Schools
Camden-Frontier School	Croswell-Lexington C.S.	Fitzgerald Public Schools
Carman-Ainsworth C.S.	Dansville Schools	Flat Rock Community Schools
Carney-Nadeau Public Schools	Davison Community Schools	Flint, S.D. of the City of
Caro Community Schools	Dearborn City School District	Flushing Community Schools
Carrollton Public Schools	Dearborn Heights S.D. #7	Forest Area Community S.
Carson City-Crystal Area S.	Decatur Public Schools	Forest Hills Public Schools
Carsonville-Port Sanilac S.D.	Deckerville Community S.D.	Fowlerville Community Schools
Caseville Public Schools	Delton Kellogg Schools	Frankenmuth School District
Cass City Public Schools	DeTour Area Schools	Frankfort-Elberta Area Schools
Cassopolis Public Schools	Detroit City School District	Fraser Public Schools
Cedar Springs Public Schools	Detroit Public Schools	Freeland Community S.D.
Center Line Public Schools	Detroit Public Schools C.D.	Fremont Public School District
Central Lake Public Schools	DeWitt Public Schools	Fruitport Community Schools
Central Montcalm Public S.	Dexter Community S.D.	Galesburg-Augusta C.S.
Centreville Public Schools	Dollar Bay-Tamarack City Area	Garden City Public Schools
Charlevoix Public Schools	K-12 Schools	Gaylord Community Schools
Charlotte Public Schools	Dowagiac Union School District	Genesee School District
Cheboygan Area Schools	Dryden Community Schools	Gibraltar School District
Chelsea School District	Dundee Community Schools	Gladstone Area Schools
Chesaning Union Schools	Durand Area Schools	Gladwin Community Schools
Chippewa Hills School District	East China School District	Glen Lake Community Schools
Chippewa Valley Schools	East Detroit Public Schools	Gobles Public School District
Church School District	East Grand Rapids Public S.	Godfrey-Lee Public Schools
Clare Public Schools	East Jackson Community S.	Godwin Heights Public Schools
Clarenceville School District	East Jordan Public Schools	Goodrich Area Schools
Clarkston Community S.D.	East Lansing School District	Grand Blanc Community S.
Clawson Public Schools	Eaton Rapids Public Schools	Grand Haven Area Public S.
Climax-Scotts Community S.	Eau Claire Public Schools	Grand Ledge Public Schools
Clinton Community Schools	Ecorse Public Schools	Grand Rapids Public Schools
Clintondale Community S.	Edwardsburg Public Schools	Grandville Public Schools
Clio Area School District	Elk Rapids Schools	Grant Public School District

Greenville Public Schools	Jenison Public Schools	Madison S.D. (Lenawee)
Grosse Ile Township Schools	Johannesburg-Lewiston Area S.	Mancelona Public Schools
Grosse Pointe Public Schools	Jonesville Community Schools	Manchester Community S.
Gull Lake Community Schools	Kalamazoo Public Schools	Manistee Area Public Schools
Gwinn Area Community S.	Kaleva Norman Dickson S.D.	Manistique Area Schools
Hamilton Community Schools	Kalkaska Public Schools	Manton Consolidated Schools
Hamtramck, S.D. of the City of	Kearsley Community S.D.	Marcellus Community Schools
Hancock Public Schools	Kelloggsville Public Schools	Marion Public Schools
Hanover-Horton School District	Kenowa Hills Public Schools	Marlette Community Schools
Harbor Beach Community S.	Kent City Community Schools	Marquette Area Public Schools
Harper Creek Community S.	Kentwood Public Schools	Marshall Public Schools
Harper Woods, S.D. of the City	Kingsley Area Schools	Marysville Public Schools
Harrison Community Schools	Kingston Community S.D.	Mason Cons. S. (Monroe)
Hart Public School District	L'Anse Area Schools	Mason County Central Schools
Hartford Public Schools	L'Anse Creuse Public Schools	Mason Public S. (Ingham)
Hartland Consolidated Schools	Laingsburg Community S.	Mattawan Consolidated School
Haslett Public Schools	Lake City Area School District	Mayville Community S.D.
Hastings Area School District	Lake Fenton Community S.	McBain Rural Agricultural S.
Hazel Park, S.D. of the City of	Lake Linden-Hubbell S.D.	Melvindale-North Allen Park S.
Hemlock Public School District	Lake Orion Community Schools	Memphis Community Schools
Hesperia Community Schools	Lake Shore Public S. (Macomb)	Mendon Community S.D.
Highland Park City Schools	Lakeshore S.D. (Berrien)	Menominee Area Public S.
Hillsdale Community Schools	Lakeview C.S. (Montcalm)	Merrill Community Schools
Holland City School District	Lakeview Public S. (Macomb)	Mesick Consolidated Schools
Holly Area School District	Lakeview S.D. (Calhoun)	Michigan Center School District
Holt Public Schools	Lakeville Community S.D.	Midland Public Schools
Homer Community S.D.	Lakewood Public Schools	Milan Area Schools
Hopkins Public Schools	Lamphere Public Schools	Millington Community Schools
Houghton Lake Community S.	Lansing Public School District	Mio-AuSable Schools
Howell Public Schools	Lapeer Community Schools	Mona Shores Public S.D.
Hudson Area Schools	Lawrence Public Schools	Monroe Public Schools
Hudsonville Public S.D.	Lawton Community S.D.	Montabella Community S.
Huron School District	Leland Public School District	Montague Area Public Schools
Huron Valley Schools	Les Cheneaux Community S.	Moran Township S.D.
Imlay City Community Schools	Leslie Public Schools	Morenci Area Schools
Inland Lakes Schools	Lincoln Consolidated S.D.	Morley Stanwood C.S.
Ionia Public Schools	Lincoln Park, S.D. of the City of	Morrice Area Schools
Iron Mountain Public Schools	Litchfield Community Schools	Mount Clemens C.S.D.
Ironwood Area Schools of	Livonia Public Schools S.D.	Mt. Morris Consolidated S.
Gogebic County	Lowell Area Schools	Mt. Pleasant City S.D.
Ishpeming Public S.D. No. 1	Ludington Area School District	Munising Public Schools
Ithaca Public Schools	Mackinac Island Public Schools	Muskegon Heights S.D.
Jackson Public Schools	Mackinaw City Public Schools	Muskegon, P.S. of the City of
Jefferson Schools (Monroe)	Madison District Public Schools	Napoleon Community Schools

Negaunee Public Schools	Pittsford Area Schools	Sigel Township S/D #3F
New Buffalo Area Schools	Plainwell Community Schools	Sodus Township S/D #5
New Haven Community S.	Plymouth-Canton C.S.	South Haven Public Schools
Newaygo Public School District	Pontiac City School District	South Lake Schools
NICE Community S.D.	Port Huron Area School District	South Lyon Community Schools
Niles Community Schools	Portage Public Schools	South Redford School District
North Adams-Jerome Public S.	Portland Public Schools	Southfield Public S.D.
North Branch Area Schools	Posen Consolidated S.D. No. 9	Southgate Community S.D.
North Central Area Schools	Potterville Public Schools	Sparta Area Schools
North Huron School District	Public Schools of Calumet, Laurium & Keweenaw	Springport Public Schools
North Muskegon Public S.	Public Schools of Petoskey	St. Charles Community Schools
Northport Public School District	Quincy Community Schools	St. Ignace Area Schools
Northview Public Schools	Ravenna Public Schools	St. Johns Public Schools
Northville Public Schools	Reading Community Schools	St. Joseph Public Schools
Northwest Community Schools	Redford Union S., District No. 1	St. Louis Public Schools
Norway-Vulcan Area Schools	Reed City Area Public Schools	Standish-Sterling Community S.
Nottawa Community School	Reese Public Schools	Stanton Township Public S.
Novi Community School District	Reeths-Puffer Schools	Stephenson Area Public S.
Oak Park, S.D. of the City of	Republic-Michigamme Schools	Stockbridge Community S.
Oakridge Public Schools	Richmond Community Schools	Sturgis Public Schools
Okemos Public Schools	River Rouge, S.D. of the City of	Summerfield Schools
Olivet Community Schools	River Valley School District	Superior Central School District
Onaway Area Community S.D.	Riverview Community S.D.	Suttons Bay Public Schools
Onkama Consolidated S.	Rochester Community S.D.	Swan Valley School District
Onsted Community Schools	Rockford Public Schools	Swartz Creek Community S.
Orchard View Schools	Rogers City Area Schools	Tahquamenon Area Schools
Oscoda Area Schools	Romeo Community Schools	Tawas Area Schools
Otsego Public Schools	Romulus Community Schools	Taylor School District
Ovid-Elsie Area Schools	Roscommon Area Public S.	Tecumseh Public Schools
Owosso Public Schools	Roseville Community Schools	Tekonsha Community Schools
Oxford Community Schools	Royal Oak Schools	Thornapple Kellogg S.D.
Parchment School District	Rudyard Area Schools	Three Rivers Community S.
Paw Paw Public School District	Saginaw Township C.S.	Traverse City Area Public S.
Peck Community S.D.	Saginaw, S.D. of the City of	Trenton Public Schools
Pellston Public Schools	Saline Area Schools	Tri County Area Schools
Pennfield Schools	Sand Creek Community S.	Troy School District
Pentwater Public S.D.	Sandusky Community S.D.	Ubley Community Schools
Perry Public Schools	Saranac Community Schools	Union City Community Schools
Pewamo-Westphalia Community Schools	Saugatuck Public Schools	Unionville-Sebewaing Area S.D.
Pickford Public Schools	Sault Ste. Marie Area Schools	Utica Community Schools
Pinckney Community Schools	Schoolcraft Community S.	Van Buren Public Schools
Pinconning Area Schools	Shelby Public Schools	Van Dyke Public Schools
Pine River Area Schools	Shepherd Public Schools	Vanderbilt Area Schools

Vandercook Lake Public S.
 Vassar Public Schools
 Vestaburg Community Schools
 Vicksburg Community Schools
 Waldron Area Schools
 Walkerville Public Schools
 Walled Lake Consolidated S.
 Warren Consolidated Schools
 Warren Woods Public Schools
 Waterford School District
 Watersmeet Township S.D.
 Watervliet School District
 Waverly Community Schools
 Wayland Union Schools

Wayne-Westland C.S.D.
 Webberville Community S.
 West Bloomfield School District
 West Branch-Rose City Area S.
 West Iron County Public S.
 West Ottawa Public S.D.
 Western School District
 Westwood Community S.D.
 Westwood Heights Schools
 White Cloud Public Schools
 White Pigeon Community S.
 Whiteford Agricultural S.D. of
 the City of Lenawee &
 Monroe

Whitehall District Schools
 Whitmore Lake Public S.D.
 Whittemore-Prescott Area S.
 Williamston Community S.
 Wolverine Community S.D.
 Woodhaven-Brownstown S.D.
 Wyandotte, S.D. of the City of
 Wyoming Public Schools
 Yale Public Schools
 Ypsilanti Community Schools
 Zeeland Public Schools

PSA Districts

Academic and Career Edu. A.
 Academy for Business & Tech.
 Academy of Warren
 ACE Academy (SDA)
 Achieve Charter Academy
 Advanced Technology A.
 Alternative Educational Acad.
 of Ogemaw County
 American International A.
 American Montessori Academy
 Ann Arbor Learning Community
 Arbor Academy
 Arbor Preparatory High School
 Arts Academy in the Woods
 Arts and Tech. A. of Pontiac
 Augusta Academy
 Battle Creek Montessori A.
 Bay City Academy
 Benton Harbor Charter S. A.
 Black River Public School
 Blue Water Middle College
 Bradford Academy
 Branch Line School
 Bridge Academy
 Burton Glen Charter Academy
 Byron Center Charter School
 Caniff Liberty Academy
 Canton Charter Academy
 Canton Preparatory H. S.
 Capstone A. Charter S. (SDA)
 Central Academy
 Cesar Chavez Academy

Chandler Park Academy
 Chandler Woods Charter A.
 Charlevoix Montessori
 Academy for the Arts
 Charlton Heston Academy
 Chatfield School
 Cole Academy
 Concord Academy - Boyne
 Concord Academy - Petoskey
 Cornerstone Health and Tec. S.
 Cornerstone Jefferson -
 Douglass Academy
 Countryside Academy
 Covenant House A. Detroit
 Covenant House A. G. Rapids
 Creative Technologies A.
 Crescent Academy
 Cross Creek Charter Academy
 Crossroads Charter Academy
 Da Vinci Institute
 David Ellis Academy
 David Ellis Academy West
 Detroit A. of Arts and Sciences
 Detroit Collegiate High School
 Detroit Community Schools
 Detroit Enterprise Academy
 Detroit Innovation Academy
 Detroit Leadership Academy
 Detroit Merit Charter Academy
 Detroit Service Learning A.
 Dove Academy of Detroit

Dr. Joseph F. Pollack Academic
 Center of Excellence
 East Shore Leadership A.
 Eaton Academy
 Escuela Avancemos
 Excel Charter Academy
 Faxon Language Immersion A.
 Flagship Charter Academy
 Flat River Academy
 Fortis Academy
 Four Corners Montessori A.
 Francis Reh PSA
 Frontier International Academy
 GEE Edmonson Academy
 GEE White Academy
 Genesee STEM Academy
 George Crockett Academy
 George Washington Carver A.
 Global Heights Academy
 Global Preparatory Academy
 Global Tech Academy
 Grand Blanc Academy
 Grand Rapids Child Disc. Center
 Grand River Academy
 Grand River Preparatory H.S.
 Great Lakes Cyber Academy
 Greater Heights Academy
 Hamtramck Academy
 Henry Ford Acad.: School for
 Creative Studies
 Highland Park Public School
 Academy System

Highpoint Virtual Acad. of MI	Michigan Edu. Choice Center	Sarah J. Webber Media Arts A.
Hillsdale Preparatory School	Michigan Great Lakes Virtual A.	South Arbor Charter Academy
Honey Creek Community S.	Michigan International Prep S.	South Pointe Scholars Chart. A.
Hope Academy	Michigan Math and Sci. A.	St. Clair County Intervention A.
Hope A. of West Michigan	Michigan School for the Arts	Star International Academy
Hope of Detroit Academy	Michigan Virtual Charter A.	State Street Academy
Huron Academy	Mid-Michigan Leadership A.	Summit Academy
ICademy Global	Midland Academy of Advanced	Summit Academy North
Inkster Prep. A. Innacademy	and Creative Studies	Taylor Exemplar Academy
Innocademy	Mildred C. Wells Preparatory A.	Taylor Preparatory High School
Innocademy Allegan Campus	Multicultural Academy	The Dearborn Academy
Insight School of Michigan	Muskegon Heights Public	The New Standard Academy
International A. of Flint	School Academy System	Three Lakes Academy
International A. of Saginaw	Nah Tah Wahsh Public S. A.	Three Oaks Public School A.
Jackson Prep. & Early College	New Bedford Academy	Timbuktu Academy
Jefferson International A.	New Branches Charter A.	Tipton Academy
Joseph K. Lumsden Bahweting	New Paradigm Loving A.	Universal Academy
Anishnabe Academy	New School High	Universal Learning Academy
Joy Preparatory Academy	Nexus A. of Grand Rapids	University Preparatory. A.
Kensington Woods Schools	Noor International Academy	University Prep. Science and
Keys Grace Academy	North Saginaw Charter A.	Mathematics (PSAD)
Kingsbury Country Day School	North Star Academy	Vanderbilt Charter Academy
Knapp Charter Academy	Northridge Academy	Vista Charter Academy
Lakeside Charter School	Oakland Academy	Voyageur Academy
Landmark Academy	Oakland International Academy	W-A-Y Academy
Lansing Charter Academy	Oakside Scholars Charter A.	Walden Green Montessori
Laurus Academy	Ojibwe Charter School	Walton Charter Academy
Leelanau Montessori PSA	Old Redford Academy	Warrendale Charter Academy
Life Skills Center of Pontiac	Outlook Academy	Washington-Parks Academy
LifeTech Academy	Pansophia Academy	Waterford Montessori Academy
Light of the World Academy	Paramount Charter Academy	WAY Academy - Flint
Lighthouse Academy	Plymouth Educational Center	WAY Michigan
Lincoln-King Academy	Charter School	Wellspring Preparatory High S.I
MacDowell Preparatory A.	Plymouth Scholars Charter A.	West MI Academy of
Macomb Academy	Pontiac A. for Excellence	Environmental Science
Macomb Montessori Academy	Prevail Academy	West Michigan Aviation A.
Madison Academy	Quest Charter Academy	West Village Academy
Madison-Carver Academy	Regent Park Scholars Chrtr A.	Westfield Preparatory High S.
Marshall Academy	Renaissance Public School A.	White Pine Academy
Martin Luther King, Jr.	Richfield Public School A.	Will Carleton Charter School A.
Education Center Academy	Ridge Park Charter Academy	Windemere Park Charter A.
Marvin L. Winans Academy of	River City Scholars Charter A.	Woodland Park Academy
Performing Arts	Riverside Academy	Woodland School
Merritt Academy	Rutherford Winans Academy	Woodward Academy
Metro Charter Academy	Saginaw Learn to Earn A.	WSC Academy
Michigan Connections A.	Saginaw Preparatory Academy	

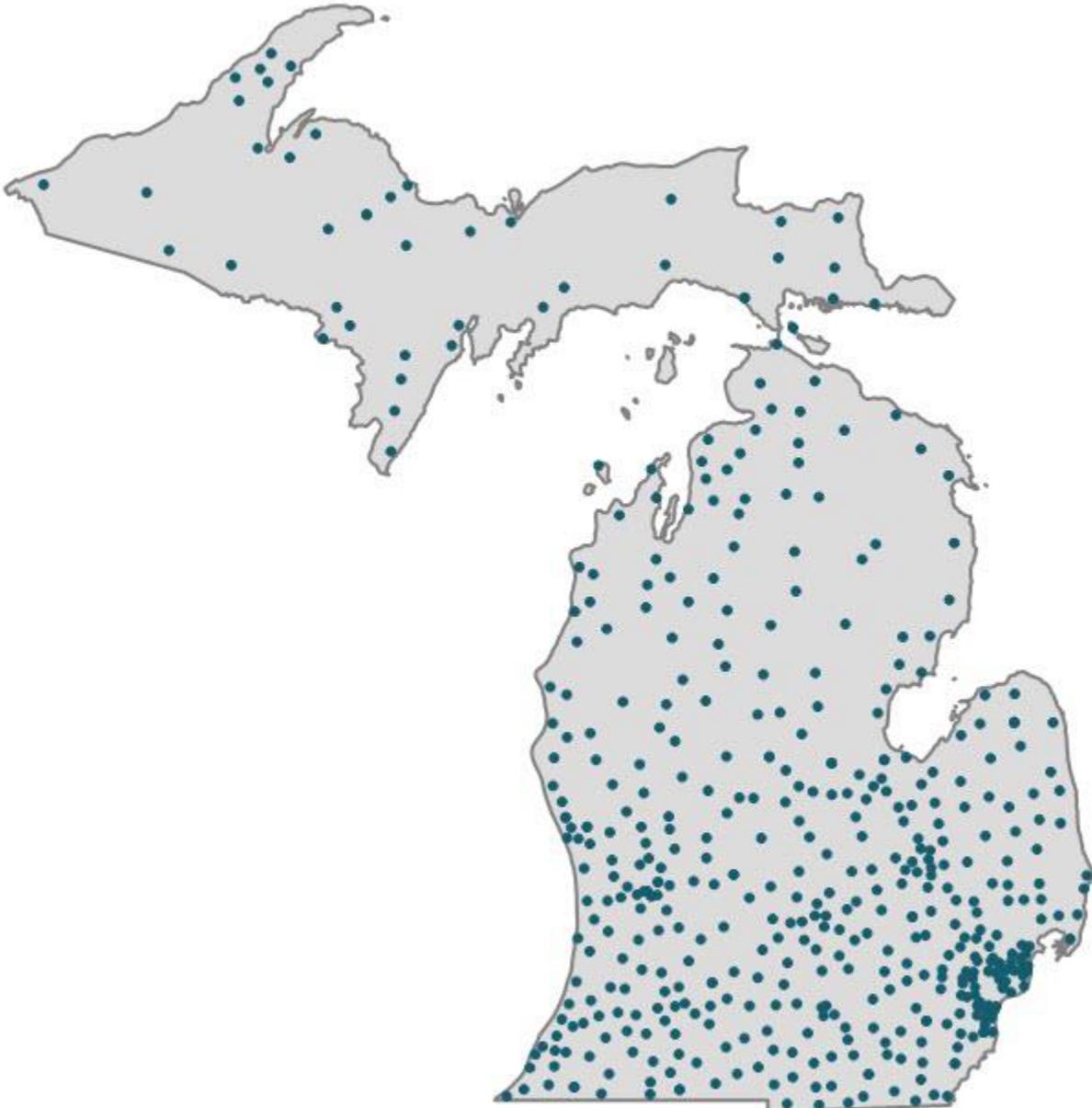
Nonpublic Schools

Academy of Sacred Heart	Cranbrook School	Hackett Catholic Prep
Ada Christian School	Crescent A. International	Harbor Light Christian School
Aim High School	Cross Lutheran School	Heritage Christian Academy
Alderbrook Sterling South- Detroit Campus	Daycroft Montessori School	Hillsdale Academy
Algoma Christian School	Delasalle Collegiate H.S.	Holland Adventist School
All Saints Academy Elementary	Detroit Catholic Central H.S.	Holland Christian High School
All Saints Catholic Academy	Detroit Christian Schools of Excellence	Holt Lutheran Schools
All Saints Catholic School - Canton	Detroit Country Day Lower S.	Holy Angels Elementary School
All Saints Central School	Detroit Country Day Middle S.	Holy Cross Catholic School
All Saints Elementary	Detroit Cristo Rey High School	Holy Cross Lutheran School
Allendale Christian School	Divine Child Elementary School	Holy Family Regional School
Alpena SDA Elementary School	Divine Child High School	Holy Family School - East Tawas
Ann Arbor Adventist Ele. S.	Divine Providence Academy - Conklin	Holy Name School - Birmingham
Ann Arbor Christian School	Divine Providence Academy - Ravenna	Holy Redeemer E. S.
Assumption of the Blessed Virgin Mary Catholic School	Dreamy Islamic Academy	Holy Spirit Central School
Austin Catholic High School	Eagle Creek Academy	Holy Spirit Roman Catholic S.
Bethel Lutheran School	Early Impressions	Holy Spirit School
Bethlehem Lutheran School	East Martin Christian School	Holy Trinity Catholic School
Bishop Baraga Catholic School - Iron Mountain	Ebenezer Christian School	Huron Valley Catholic School
Bishop Foley Catholic H.S.	Emerson School	Immaculate Conception School - Ira
Bishop Kelley Memorial School	Faith Baptist School	Immaculate Conception Ukrainian School
Bloomfield Christian School	Faith Lutheran School	Immaculate Heart of Mary S.
Borculo Christian School	Faithway Christian School	Immanuel - St. James Lutheran School
Brightmont Academy - Birmingham	Farber Hebrew Day School - Yeshivat Akiva	Immanuel Lutheran School - Alpena
Brookfield Academy - Rochester Hills	Fr. Gabriel Richard High School	Immanuel Lutheran School - Bay City
Brother Rice High School	Fr. Luke M. Powers High School	Immanuel Lutheran School - Macomb
Byron Center Christian School	Fr. Marquette Catholic School	Immanuel Lutheran School - Saginaw
Cabrini High School	Fr. Marquette Middle School	Inter City Baptist School
Calvary Baptist Academy	Franklin Road Christian School	Interlochen Arts Academy
Calvary Christian School	Fremont Christian School	Jenison Christian School
Cardinal Mooney Catholic S.	Gabriel Richard Catholic H.S.	John Paul II Catholic School
Christ Lutheran School - Stevensville	Genesee Academy	Kalamazoo Christian H.S.
Christ the King Lutheran - Sebewaing	Genesee Christian School	Kalamazoo Christian School
Christ the King Lutheran - Unionville	Gesu Elementary School	Ladywood High School–Detroit
Christ the King School	Good Shepherd Early Childhood Center	Laingsburg Christian School
Concordia Lutheran North	Grace Baptist Christian School	Lake Michigan Academy
Cornerstone Christian School - Brighton	Grand Haven Christian School	Lake Michigan Catholic MS/HS
Corpus Christi Catholic School	Grand Rapids Christian E. S.	Lake Michigan Catholic School
Covenant Christian High School	Grand Rapids Christian H. S.	Lamont Christian School
	Grand Rapids Christian M. S.	Lansing Christian School
	Grandville Christian School	
	Grayling SDA School	
	Grosse Pointe Academy	
	Guardian Angels School	

Legacy Christian School	Plymouth Christian Academy	St. Isaac Jogues Catholic S.
Libertas Christian School	Potters House High School	St. Joan of Arc School
Livingston Christian Schools	Potters House School	St. John Lutheran School - Bay City
Lumen Christi Catholic School	Providence Christian School	St. John Lutheran School - New Boston
Lutheran High School - Westland	Queen of Miraculous Medal School	St. John Lutheran School - Rochester
Macomb Christian Schools	Regina High School	St. John the Evangelist School - Fenton
Manistee Catholic Central S.	Resurrection School	St. John the Evangelist School - Jackson
Marian High School	Roeper City and Country Elementary School	St. John Vianney School - Wyoming
Mercy High School	Rudolf Steiner High School	St. John's Lutheran School
Midland Christian School	Rudolf Steiner School of Ann Arbor	St. John's Ev. Lutheran School
Moline Christian School	Sacred Heart School - Dearborn	St. John's Evangelical Lutheran School
Monroe Catholic Es - St. John Campus	Sacred Heart School - Hudson	St. Johns Lutheran Amelith
Monroe Catholic Es - St. Mary Campus	Sacred Heart School - Mount Pleasant	St. Johns Lutheran School
Monroe Catholic Es - St. Michael Campus	Saginaw Chippewa Indian Tribe of Michigan	St. Joseph Catholic School - Erie
Montessori Children's Center	Saint John Paul II Catholic A.	St. Joseph Catholic School - Lake Orion
Montessori Children's Center of Allen Park, Inc.	Shajara Tayyiba School	St. Joseph Elementary School
Most Holy Trinity School - Detroit	Shrine Catholic Grade School	St. Joseph School - Howell
Muskegon Catholic Central E.S.	Shrine Catholic H.S. & Academy	St. Joseph School - Pewamo
Muskegon Catholic Central H.S.	South Side Christian School	St. Joseph School - Saint Johns
Muslim American Youth A.	Southfield Christian School	St. Joseph School - Trenton
Northern Michigan Christian S.	Spiritus Sanctus Academy - Ann Arbor	St. Joseph's School
Northpointe Christian School	Spiritus Sanctus Academy - Plymouth	St. Lawrence School
Northpointe Christian School Grades 1-5 - Grand Rapids	SS. Peter and Paul School	St. Linus School
Northpointe Christian School Grades 6-12 - Grand Rapids	St. Ann School	St. Luke Lutheran School
Notre Dame Preparatory School	St. Anne Catholic Grade School	St. Luke's Lutheran School
Nouvel Catholic Central H.S.	St. Anselm School	St. Mary Cathedral School
Oakland Christian School	St. Anthony of Padua School	St. Mary Catholic Central H.S.
Otsego Christian Academy	St. Augustine Catholic School	St. Mary Catholic School - Rockwood
Our Lady of Consolation School	St. Brigid Catholic School	St. Mary Catholic School - Sault Sainte Marie
Our Lady of Good Counsel S.	St. Catherine of Siena Academy	St. Mary School - Big Rapids
Our Lady of Refuge School	St. Charles Borromeo Catholic School	St. Mary School - Charlevoix
Our Lady of Sorrows School	St. Charles Catholic School	St. Mary School - Charlotte
Our Lady of the Lake School	St. Charles School	St. Mary School - Mount Clemens
Our Lady of the Lakes School	St. Clare of Montefalco School	St. Mary School - Mount Morris
Our Lady of Victory School	St. Edith School	St. Mary School - Niles
Our Lady Queen of Martyrs S.	St. Edward on the Lake School	St. Mary School - Pinckney
Our Lady Star of the Sea S.	St. Elizabeth Catholic School	St. Mary School - Royal Oak
Our Savior Lutheran School - Lansing	St. Fabian Catholic School	St. Mary School - Saint Clair
Our Savior Lutheran School - Marlette	St. Frances Cabrini School	St. Mary School - Wayne
Parkway Christian School	St. Francis De Sales School	
Peace Lutheran School - Shelby Township	St. Francis of Assisi School	
	St. Germaine Elementary S.	
	St. Hugo of the Hills School	

St. Mary School - Westphalia	St. Paul School - Grosse Pointe Farms	Trinity Ev Lutheran School - Bay City
St. Mary School - Williamston	St. Paul School - Owosso	Trinity Lutheran Monitor
St. Mary's Preparatory School	St. Paul's Lutheran School	Trinity Lutheran School - Jackson
St. Mary/McCormick Catholic Academy	St. Peter Lutheran School - Big Rapids	Trinity Lutheran School - Reed City
St. Matthew Lutheran School - Westland	St. Peter Lutheran School - Eastpointe	Trinity Lutheran School - Saint Joseph
St. Michael Lutheran School - Wayne	St. Peter Lutheran School - Macomb	Trinity Lutheran School - Traverse City
St. Michael School - Grand Ledge	St. Philip Catholic Central H.S.	Trinity Lutheran School - Utica
St. Michael School - Livonia	St. Pius Catholic School	University Of Detroit Jesuit
St. Michael School - Pinconning	St. Pius X School	University-Liggett School
St. Michael School - Remus	St. Regis School	Village SDA Elementary School
St. Monica School	St. Robert Catholic School	Vineyard Academy
St. Patrick School - Ada	St. Rose of Lima Catholic S.	Waldorf School Assn. Of Michigan
St. Patrick School - Brighton	St. Sebastian School	Washtenaw Christian Academy
St. Patrick School - Carleton	St. Stephen School	West Catholic High School
St. Patrick School - White Lake	St. Thecla Catholic School	West Michigan Lutheran H.S.
St. Patrick's School	St. Therese Catholic School	West Side Christian School
St. Paul Lutheran School - Ann Arbor	St. Thomas the Apostle School - Grand Rapids	Western Michigan Christian High School
St. Paul Lutheran School - Bay City	St. Valentine School	Yeshivas Darchei Torah
St. Paul Lutheran School - Millington	St. William Catholic School	Zion Evangelical Lutheran S.
St. Paul Lutheran School - Northville	Stepping Stones Montessori S.	Zion Lutheran Beaver School
St. Paul Lutheran School - Saginaw	Tawheed Center of Detroit S.	Zion Lutheran School - Bay City
	The Pathfinder School, Inc.	Zion Lutheran School - Harbor Beach
	Traverse Bay Mennonite School	Zion Lutheran School - Monroe
	Tri-Unity Christian M/H School	
	Trinitas Classical Association	

Figure 8. 2018-19 Michigan Virtual ISD, LEA, PSA Districts and Nonpublic Schools with Professional Learning Enrollments



Endnotes

¹ Statistics cited from *Michigan's K-12 Virtual Learning Effectiveness Report 2017-18* available at <https://mvlri.org/research/publications/michigans-k-12-virtual-learning-effectiveness-report-2017-18/>

² See the *Michigan Merit Curriculum Guidelines: Online Experience* document available at https://www.michigan.gov/documents/mde/Online10.06_final_175750_7.pdf

³ A full text version of Section 21f is available at <http://legislature.mi.gov/doc.aspx?mcl-388-1621f>

⁴ The statewide catalog of online courses can be found at <https://micourses.org>

⁵ The survey instrument and report for both the adult and college student populations were published in *Public Awareness and Views of K-12 Online Learning in Michigan 2019* available at <https://mvlri.org/research/publications/public-awareness-and-views-of-k-12-online-learning-in-michigan-2019/>

⁶ The statewide virtual pass rate for 2017-18 is published in *Michigan's K-12 Virtual Learning Effectiveness Report 2017-18* available at <https://mvlri.org/research/publications/michigans-k-12-virtual-learning-effectiveness-report-2017-18/>

⁷ Of the 30,140 enrollments, 859 enrollments occurred outside of the student learning portal, either using a partner's system or website enrollment. These 859 are excluded from the student count as we cannot determine if a student appears in both system. Similarly, these enrollments, which include enrichment (non-credit bearing) learning opportunities are not included in the pass rate as those data are not available.

⁸ CEPI's Entity Quick Search can be accessed at <https://www.cepi.state.mi.us/eem/EntitySearchQuick.aspx>

⁹ For more information about Professional Learning Requirements, please visit the MDE website at https://www.michigan.gov/mde/0,4615,7-140-5683_14795_83468--,00.html

¹⁰ For more information about the School Counselor Professional Development Standards, please visit https://www.michigan.gov/documents/mde/School_Counselor_PD_Standards_626294_7.pdf

¹¹ See Launch Michigan's 2019 Educator Survey available at <https://www.launchmichigan.org/wp-content/uploads/2019/03/Launch-MI-Full-Report-2019-FINAL.pdf>

¹² The PLP is available at <https://plp.mivu.org/>

- ¹³ For more information about Teacher Boost, please visit <https://michiganvirtual.org/professionals/blended-learning/teacher-boost/>
- ¹⁴ For more information about Blended Learning Live!, please visit <https://michiganvirtual.org/professionals/blended-learning/blended-learning-live/>
- ¹⁵ For more information about ways *Michigan Virtual* works to training mentors, please visit <https://michiganvirtual.org/professionals/mentors/>
- ¹⁶ For more information about the K-12 computer science standards, please visit https://www.michigan.gov/mde/0,4615,7-140-28753_64839_65510_65522-485702--,00.html
- ¹⁷ For more information about the Blended Suite, please visit <https://michiganvirtual.org/professionals/blended-learning/>
- ¹⁸ For more information about Blended Learning Live!, please visit <https://michiganvirtual.org/professionals/blended-learning/blended-learning-live/>
- ¹⁹ For more information about Teacher Boost, please visit <https://michiganvirtual.org/professionals/blended-learning/teacher-boost/>
- ²⁰ For more information about MyPD, please visit <https://michiganvirtual.org/professionals/mypd/>
- ²¹ Digital Backpack is available at <https://michiganvirtual.org/blog/category/podcast/>
- ²² The blog series can be found at <https://michiganvirtual.org/blog/category/tips-and-tools/>
- ²³ The podcast series can be found at <https://michiganvirtual.org/blog/category/podcast/>
- ²⁴ The course is available at <https://michiganvirtual.org/course/podcast-pd-growing-student-agency-and-implementing-google-classroom/>
- ²⁵ The blog post can be found at <https://mvlri.org/blog/pacing-guide-for-success-in-online-mathematics-courses/>
- ²⁶ The text-mining report is published at <https://mvlri.org/research/publications/exploring-professional-discourse-using-data-from-online-discussion-forums-showcase-of-three-methods>
- ²⁷ The predictive analytics webinar is available from <https://mvlri.org/research/webinar-podcast/supporting-student-success-through-predictive-analytics/>
- ²⁸ More information about Suite360 is available at <https://michiganvirtual.org/sel/>
- ²⁹ The communications report is available at <https://mvlri.org/research/publications/communicative-interactions-with-teachers-in-k-12-online-courses-from-the-student-perspective/>
- ³⁰ The textbook is available from <https://edtechbooks.org/k12blended>

- ³¹ The quality standards are available from <http://www.nsqol.org/>
- ³² For more about the VLLA, please visit <https://www.virtuallearningalliance.org/>
- ³³ For more about Quality Matters, please visit <https://www.qualitymatters.org/>
- ³⁴ Watch the recorded count day webinar at https://michiganvirtual.zoom.us/webinar/register/WN_8UOpSWzFT72aHT5qO3DIgG
- ³⁵ More information about the supplemental online program reviews is available at <https://mvlri.org/resources/online-program-reviews/>
- ³⁶ The *Effectiveness Report* is available at <https://mvlri.org/research/publications/michigans-k-12-virtual-learning-effectiveness-report-2017-18/>
- ³⁷ View the *Effectiveness Report* infographic at <https://mvlri.org/wp-content/uploads/2019/02/ER-2019-At-A-Glance-Web.pdf>
- ³⁸ View the *Effectiveness Report* presentation at <https://michiganvirtual.zoom.us/recording/share/DYIH5k2yWQ3AXb0RbTg-w9ruEjEFD5Yr6kF3ze6H13GwlumekTziMw>
- ³⁹ All three sets of standards are available at <https://www.nsqol.org/>
- ⁴⁰ See an example of how *Michigan Virtual* shares information about the Quality Standards at <https://michiganvirtual.org/blog/what-constitutes-quality-online-teaching-revised-national-standards/>
- ⁴¹ For more information about the supplemental online program reviews, please visit <https://mvlri.org/resources/online-program-reviews/>
- ⁴² For more information about Blended Learning Live!, please visit <https://michiganvirtual.org/professionals/blended-learning/blended-learning-live/>
- ⁴³ The Guides are available at <https://michiganvirtual.org/resources/guides/>
- ⁴⁴ The Research Clearinghouse for K-12 Blended & Online Learning is available at <https://k12onlineresearch.org/>
- ⁴⁵ The December Newsletter is available at https://preview.hs-sites.com/_hcms/preview/content/6825997581?portalId=3943841&_preview=true&cacheBust=0&preview_key=AuhuLizl&from_buffer=false
- ⁴⁶ The March newsletter is available at <https://mail.michiganvirtual.org/spring-19-quarterly-research-clearinghouse-newsletter>

- 47 The May newsletter is available at <https://mail.michiganvirtual.org/spring-19-quarterly-research-clearinghouse-newsletter-1>
- 48 The July newsletter is available at <https://mail.michiganvirtual.org/spring-19-quarterly-research-clearinghouse-newsletter-2>
- 49 The instructional design course is available at <https://michiganvirtual.org/course/so-you-want-to-be-an-instructional-designer/>
- 50 The communication can be seen at <https://mailchi.mp/e6adee4f571b/opportunity-for-teacher-preparation-programs-from-michigan-virtual-437417>
- 51 For more information about the MASA micro-credentials, please visit <http://gomasa.org/microcredentials/>
- 52 For more information about MEMSPA micro-credentials, please visit https://michiganvirtual.org/courses/professional/?_course_search=MEMSPA
- 53 For more information about the Online Mentor Community, please visit <https://michiganvirtual.org/course/online-mentor-community/>
- 54 A pdf of the postcard is available at <https://michiganvirtual.org/wp-content/uploads/2019/02/Mentor-Postcard.pdf>
- 55 The survey instrument and report for both the adult and college student populations were published in *Public Awareness and Views of K-12 Online Learning in Michigan 2019* available at <https://mvlri.org/research/publications/public-awareness-and-views-of-k-12-online-learning-in-michigan-2019/>
- 56 The Consumer Awareness Report is available at <https://mvlri.org/consumer-awareness/>
- 57 The Michigan #GoOpen website is at <https://goopenmichigan.org/>
- 58 To enroll in the Open Educational Resource course, please visit <https://michiganvirtual.org/course/goopen-open-educational-resources-in-michigan/>
- 59 *Michigan Virtual* Open Educational Resources can be found at <https://goopenmichigan.org/browse?f.provider=michigan-virtual>
- 60 The statewide catalog of online courses is available at <https://www.micourses.org>
- 61 The quality online course standards are available at <https://www.nsqol.org/the-standards/quality-online-courses/>
- 62 A list of the 2019 student courses that received QM certification is available at https://www.qmprogram.org/qmresources/courses/grouped_by_inst.cfm?year=2019&program=3&institution=Michigan%20Virtual#157203

⁶³ Statewide catalog help resource examples can be viewed at <https://michiganvirtual.org/about/support/knowledge-base/public-help-resources/>

⁶⁴ More information about the REP Report can be found on the CEPI website at https://www.michigan.gov/cepi/0,4546,7-113-986_10478--,00.html

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