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BUILD.**



MICHIGAN VIRTUAL UNIVERSITY
ANNUAL REPORT: 2020-21

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About Michigan Virtual

Michigan Virtual University®, commonly known as *Michigan Virtual*™, is a nonprofit 501(c)(3) organization whose mission is to advance both learning and teaching through research, practice, and partnerships. Its vision is that every person can use digital learning to reach their full potential.

Michigan Virtual works to fulfill that mission through a three-pronged approach to virtual learning. Since 2000, *Michigan Virtual* has provided over 464,600 online enrollments to high school and middle school students. *Michigan Virtual* is not a full-time virtual program nor a cyber school where students take 100% of their courses online. Rather public school, non-public school, and homeschool students typically enroll in only one or two *Michigan Virtual* courses as part of or in addition to their normal coursework, usually to resolve a scheduling conflict or to gain access to a course not offered face-to-face in their 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. *Michigan Virtual* partners with schools to provide educator training, develops and implements blended learning models, and identifies and enacts effective practices in technology integration. Through this role, *Michigan Virtual* is a statewide leader in providing educators with the required professional learning hours necessary for renewal of their teaching certificates.

The final prong is the *Michigan Virtual Learning Research Institute*® (MVLRI®). Formed in 2012, the Institute expands Michigan's capacity to support new learning models, engages in active research to inform new policies in online and blended learning, and strengthens the state's infrastructures for sharing effective practices. It is a nationally recognized thought leader in online and blended learning.

During the 2019-20 year, *Michigan Virtual* created a new strategic plan that currently serves as a North Star for the organization through the end of the 2023 fiscal year. The plan can be summarized by three powerful words: *lead*, *collaborate*, and *build*. *Michigan Virtual* will lead by providing thought leadership, collaborate by engaging with partners, and build by creating scalable solutions.

From these drivers, the organization identified three goals. The first is to improve outcomes for Michigan learners by leading research, development, deployment, and dissemination of innovative and effective practices. The second is to increase access to high-quality learning opportunities and resources. The final goal is to establish *Michigan Virtual* as a thought leader and the preferred statewide learning partner for Michigan schools and educators. By increasing access and serving as a trusted learning partner, *Michigan Virtual* will help catalyze the systemic changes required to positively impact student achievement. To accomplish these goals, *Michigan Virtual* will focus on three strategic initiatives. They include enabling flexible learning models for Michigan schools, redesigning and scaling professional learning for Michigan, and inspiring innovation in learning and teaching. More information about the strategic plan is available on our website.¹

This *Annual Report* provides highlights of *Michigan Virtual*'s student learning, professional learning, and research activities for the 2020-21 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 2019-20*,² we know that:

- 613 Michigan public school districts reported at least one virtual enrollment.
- Of the 1,225 schools with virtual enrollments, over half had 100 or more virtual enrollments.
- Nearly 122,000 Michigan K-12 students took at least one virtual course in 2019-20, totaling more than 670,000 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 56%, up 1% from the previous three years; however, almost half of the virtual learners—57,423 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-eight 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 experience³ 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 to take an online course rather than have a 20-hour minimum experience.

The second policy driver has been Section 21f of the State School Aid Act.⁴ 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.⁵

The 2019-20 school year saw a powerful driver, the COVID-19 pandemic, radically impact the use of virtual learning in the state. Through local decisions or statewide Executive Orders, schools for some period of time shifted to distance learning, many incorporating some form of online or virtual learning. This has proven to be a significant disruption to the system and one that continued into the 2021-22 school year.

Michigan Virtual Student Learning Fast Facts for 2020-21

- Nearly 29,000 students benefited from taking an online course through *Michigan Virtual*.
- Over 140,000 student enrollments were delivered to students.
- On average, students take less than two virtual courses with *Michigan Virtual* during a school year.
- About 53% of Michigan LEA Districts used *Michigan Virtual* for student courses.
- Students enrolled in 281 different online courses out of 291 course titles offered.
- The pass rate for *Michigan Virtual* teacher-led courses was 69%—well above the statewide virtual learning pass rate of about 56%.⁶ The pass rate for *Michigan Virtual* Collaborative Partner courses (taught by the districts' teachers) was 57%, and the combined rate for *Michigan Virtual* teacher-led plus Collaborative Partner courses was 65%.
- Michigan Virtual was re-accredited by Cognia (formerly AdvancED) in the 2020-21 school year. Part of a 5-year cycle, Michigan Virtual received a score of 301 on Cognia's Index of Education Quality (IEQ), which rates programs across three domains: 1) Leadership Capacity; 2) Learning Capacity; and 3) Resource Capacity. An IEQ score of 275 and above indicates the institution is beginning to reach the "impact" level and is engaged in practices that are sustained over time and are becoming ingrained in the culture of the institution. The average (range) of all Cognia Improvement Network institutions evaluated for accreditation in the last five years was 278-283.

Students

A total of 28,998 unique students took online courses with *Michigan Virtual* in 2020-21. This includes 18,170 students in teacher-led courses, 4,654 students in Collaborative Partner sections, 6,639 students in Whole School sections, and two students in Summer Enrichment world language courses. There were 556 students enrolled in both *Michigan Virtual* teacher-led and Collaborative Partner sections. There were 52 dual enrollment students, 131 Pinckney cyber students, and 23 identifiable EdReady (Math or English) or Test Out students. Students enrolled in external EdReady courses offered in local districts were not included as schools enroll directly with EdReady rather than through the Michigan Virtual systems. Note that some students may use more than one product line and therefore the sum of the student counts by product line is greater than the unique count of students listed in this first sentence of this paragraph.

During the 2020-21 school year, *Michigan Virtual* accounted for 140,048 student enrollments. This includes 45,756 enrollments in MV teacher-led Plus, Advanced Placement® (AP®), and Essentials courses. There were 93,058 enrollments in online courses taught by the local districts teachers. There were 75 enrollments through St. Clair Community College dual enrollment, 178 enrollments with Pinckney cyber, 979 through EdReady and two summer enrichment enrollments. On average, students using *Michigan Virtual* teacher-led courses took 2.5 courses, Collaborative Partner students averaged 5.1 courses, and Whole School students averaged 10.4 courses. Excluding external EdReady enrollments, the overall average number of courses taken by students was 4.8.

Districts

Student enrollments during the 2020-21 school year came from 350 Michigan districts including 286 local education agency districts (LEA districts), 28 public school academy districts (PSA districts), three intermediate school districts (ISDs), and 33 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, in November 2021, there were 537 open-active LEA districts, 292 PSA districts, 56 ISDs, and 686 nonpublic schools. Using these counts as estimates for the 2020-21 school year, *Michigan Virtual* served approximately 53% of the LEA districts, 10% of the PSA districts, 5% of the ISDs, and 5% of the nonpublic schools with student courses. A list of Michigan districts served in 2020-21 is included in Appendix A, Figure 1.

Michigan schools accounted for 138,144 enrollments with the number of enrollments from a school ranging from a single enrollment to 20,391 enrollments. The average number of enrollments per school was 392. For *Michigan Virtual* teacher-led course enrollments, Michigan schools accounted for 44,130 enrollments with an average number of enrollments per school of 127. In addition to serving Michigan schools, *Michigan Virtual* generated 181 enrollments from seven non-Michigan schools. *Michigan Virtual* also had 1,723 enrollments from Michigan and non-Michigan parents or guardians directly enrolling their children in online courses. Students in 70 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 281 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, AP courses, credit recovery courses, CTE courses through Pinckney Cyber Training Institute, dual enrollment through St. Clair County Community College, 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. Most courses (84%) were offered at the high school level, though 45 online courses were specifically available for elementary/middle school students. *Michigan Virtual* Whole School courses and external course enrollments are excluded from this list. The full listing of the online courses used by Michigan districts and students during 2020-21 is available in Appendix A, Figure 3.

Pass Rates

Michigan Virtual had a 69% course pass rate for the year in its teacher-led courses. In calculating the pass rate for teacher-led courses, 278 enrollments where the data to calculate the pass rate was unavailable due to it residing in a partner provider's system. Of the 45,756 attempted *Michigan Virtual* teacher-led enrollments, 44,333 were from students who finished or remained enrolled in the course through the last day for a 97% completion rate. In terms of course success, 31,733 of the 45,756 enrollments earned 60% or more of the total course points for an overall pass rate of 69%. To put that pass rate into perspective, the statewide—all providers—pass rate for virtual courses for the past several 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. Below is a list of the Michigan Virtual pass rates followed by the corresponding statewide average from the prior year from all providers – not just *Michigan Virtual*:

- English Language and Literature = 60% Statewide Ave = 54%
- Life and Physical Sciences = 68% Statewide Ave = 54%
- Mathematics = 64% Statewide Ave = 52%
- Social Sciences and History = 73% Statewide Ave = 58%

Appendix A, Figure 4, shows the *Michigan Virtual* pass rate for each subject area. A full list of the 2020-21 *Michigan Virtual* student pass rates by course title is also provided in Figure 3 of Appendix A. Pass rate also varied by district. Of the 270 Michigan LEA districts that enrolled students in *Michigan Virtual* teacher-led courses, 84 districts (31%) had a district-wide pass rate of 90% to 100%. An additional 65 districts (24%) had a pass rate of 80% to 90%. Thus, more than half of LEA districts had a pass rate of 80% or greater when using *Michigan Virtual* teacher-led courses. There were 47 districts that had pass rates of less than 60%. Of those, 35 had double digit enrollments. Four of those 47 districts had pass rates of less than 10%, and three districts had a single enrollment. Figure 5 of Appendix A includes a chart displaying the distribution of district pass rates.

Current Initiatives

Michigan Virtual continues to expand learning opportunities in the 2021-22 school year to better meet the needs of schools and students across the state. We are continuing our partnership with the College Board to pilot a program focused on select online AP courses and will be adding to that profile in the future. The College Board selected Michigan Virtual as a preferred partner to co-develop the new online AP Course Endorsement program. This work represents an important opportunity to further develop a national framework for online learning quality and to support the College Board's efforts to expand student access to AP courses, especially for those in small rural schools. In collaboration with College Board, we will review the results of the AP exams and collaborate on practices to expand engagement, strengthen persistence, and increase overall performance. Through this partnership, we are seeking to increase access and opportunity for students, particularly in rural areas, to engage in AP courses. The pilot includes additional training for select instructors, development of training materials to expand the program's reach state-wide, collaboration between College Board and *Michigan Virtual* course developers, and analysis of student success indicated by engagement, persistence, and performance in AP courses.

Michigan Virtual also provides ongoing professional development for a growing number of internal and external teachers. Our full-time instructors are delivering a series of live webinar sessions during the 2021-22 school year to continue to build and align teaching practices across a diverse group of educators. Topics include leveraging communication tools, learning management system (LMS) effective practices, communication with mentors and guardians, improving student engagement, using multimedia tools, providing supplemental resources, discussion board effective practices, differentiation in the online environment, effective feedback, and more.

Michigan Virtual is also introducing two new academic offerings for high school students enrolled during the 2021-22 school year. The first is a new online *Employability Skills* elective course that employs a competency-based education model, awarding students up to eight "badges" representing successful demonstration of key traits, behaviors, and skills desired by 21st century employers. Such skills include adaptability, critical thinking and problem solving, teamwork, communication, digital citizenship, relationship building, self-awareness and professionalism, and social/diversity awareness. The second course, *Future Proud Michigan Educator*, takes the form of a career interest elective course developed in collaboration with the Michigan Department of Education (MDE). The course is aligned to Michigan Standards for the Preparation of Teachers Professional Knowledge and Skills and focuses on the teacher education career pathway, raising student awareness of educational strategies, systems, and professions through both classroom assignments and a clinical experience.

As a part of continued efforts to meet new and growing needs for online and remote learning options for K-12 students and schools in Michigan, *Michigan Virtual* has engaged in multiple efforts and initiatives including the establishment of a website that houses a collection of online tools and resources intended to support and empower teachers and school leaders as they design remote, online, and blended learning experiences for their students during the COVID-19 pandemic and beyond. Included among these resources are free access to the lesson content of 79 online high school courses developed by *Michigan Virtual*. In addition, free access will be maintained and supported for the NROC Project and Idaho Digital Learning Academy through September 1, 2022.

Michigan Virtual previously maintained two licensed instances of D2L's Brightspace LMS, one for delivering online professional learning course offerings and another for online middle and high school course offerings taught by Michigan certified teachers employed by *Michigan Virtual*. *Michigan Virtual* has since obtained a third licensed instance of the Brightspace LMS and has imported course content and assessments for a total of 115 course offerings provided by *Michigan Virtual*, FlexPoint, eDynamic Learning, Accelerate Education, and Idaho Digital Learning Academy. Maintaining this separate instance of Brightspace for student courses provides opportunities for districts and schools to enter into Collaborative Partnerships with *Michigan Virtual*, permitting participating schools to determine unique academic calendars and rights to customize and deliver these courses to their own student populations taught by their local teachers.

While working with a number of local schools, districts, and ISDs to meet local needs for remote, online learning during the pandemic, it became clear there was a strong need for core online middle school courses aligned to Michigan's academic standards that would permit a greater degree of flexibility and customization than those available at the time. Development has begun to design and develop 12 year-long online courses that fulfill Michigan's English Language Arts, mathematics, science, and social studies standards in grades six through eight. The first semester of each of the 12 courses are to be made available to Collaborative Partner enrollees by the beginning of the 2022-23 school year, with the second semester to be published later in the fall of 2022.

Consistent with a commitment to provide equity in access to online learning opportunities for all students, *Michigan Virtual* recently deployed multiple integrated text-to-speech learning tools within learning and content management systems utilized for student courses. Additional efforts are now underway to develop, test, and deploy new technology integrations and customized assessment support to better meet the needs for a variety of accommodated online testing services within online courses.

As part of *Michigan Virtual's* efforts to continuously improve and assure online course quality, the following priorities have been adopted:

- Develop new course offerings in the following subject areas: *Algebra I*, *Anatomy and Physiology*, *Social Media*, and *Spanish I*.
- Submit a minimum of five semester-length courses to Quality Matters for independent course quality reviews.
- Provide training opportunities for mentors of online students across the state.
- Introduce new and/or expanded roles within *Michigan Virtual* to better meet the needs of students being served including a full-time special education specialist, an instructional coach, and student success coaches.
- Explore methods for improving online accommodations for students with individualized education programs (IEPs)

Professional Learning

Professional Learning in Michigan

Following an unprecedented 2019-20 school year complicated by the COVID-19 pandemic, the 2020-21 school year proved to be one of ambiguity and perseverance on the part of educational professionals throughout the state. While some districts returned to the face-to-face classroom, others continued to provide online learning opportunities or a blend of the two environments. Many teachers experienced the struggles of hybrid learning, where the teacher teaches both in-person and online, leading to new discussions around effective pedagogical practices in the online space.

Along with adapting to different classroom models, educators are continuing to address the social and emotional needs of students, parents, and colleagues. For some students, this was their first experience in a school building, and they were now expected to be prepared to engage with peers and teachers as if they had obtained these skills as in previous years.

Gaps in equity, made glaringly apparent by the pandemic, inspired deep conversations around issues of equality among students and school districts. By the end of the school year, teachers and administrators were needing time to reflect and recharge from a very stressful year and readying themselves for what was to come during the 2021-22 school year.

Professional learning for both teachers and administrators continues to be an area of high need throughout Michigan. Specifically, teachers need opportunities to develop the strategies and skills necessary to address not only the social and emotional needs of students and their families, but also their own specific needs. Professional learning related to student engagement and relationship-building in a virtual learning environment has also emerged as a need within the state.

Barriers and Opportunities for Professional Learning

Many districts are looking to create their own online courses to support students' choice in learning. While this is admirable, it is a lofty goal that requires the consideration of multiple elements such as long-term planning, program and educator evaluations, and effective practices in teaching in an online or blended learning environment. Professional learning around how to plan and execute on this goal is something that *Michigan Virtual* is poised and equipped to provide. Having over 20 years of experience with teaching and learning in an online and blended environment, we have resources and tools that can support the work of districts considering such learning options.

Teacher and administrator shortages have been a topic of discussion across the state and nation. Schools and districts are struggling to fill open positions, and while there are a number of individuals certified to teach, many are not currently utilizing their credentials to do so. How do we bring these professionals into the workforce and keep educators in the field? How might we better prepare our incoming teachers to face the challenges of today's classroom and meet the needs of all students? How do we support teachers and administrators with their social and emotional needs to ensure quality education for all students?

While teacher and administrator shortages are recognized around the state, the substitute teacher shortage continues to be a barrier for schools and districts. Without quality substitutes, teachers are challenged to take the time needed for their own well-being, and administrators are left struggling to find solutions to address this shortage and even playing the role of a substitute teacher on a regular basis. This challenge not only has an impact on the well-being of educators, but it also has caused a number of

these professionals to not take part in professional learning opportunities where they would be expected to be out of the classroom or school building. This inability to leave the classroom illustrates the need for options for quality self-paced, asynchronous professional learning options.

When thinking about the future of teaching and learning in Michigan, it is important to consider how we grow a quality workforce of educators and administrators. Opportunities for growing professionals in the field of education could come from collaboration between higher education entities and other educational institutions. These opportunities may include micro-credentialing for those interested in teaching. Providing professional learning options that are competency-based, honoring teachers' time already spent in the classroom, is an opportunity that some schools and districts have begun exploring.

Perhaps the greatest barrier to professional learning is the lack of available time. While district-provided professional learning options are typically available, personalized opportunities for professional learning are generally more limited. The one-size-fits-all approach may not honor what we know to have an impact on continuous professional improvement. How can we make professional learning part of the whole picture from administration to support staff? Do we need to continue to bring everyone together in one room for one training session, or can we pinpoint the needs of staff to provide a more personalized approach? With the state implementation of the Michigan Continuous School Improvement Plan (MICIP),⁷ schools and districts will be spending more time considering how to meet the needs of students, identifying areas of improvement, and then aligning resources to address these areas. This whole-child school approach to improvement may provide more cohesive ways of planning for the development of staff.

We must also recognize that many schools are struggling with higher percentages of students identified as economically disadvantaged. Research has shown that early learning opportunities and partnerships with school districts, non-profit organizations, and community leaders impacts access to services which could have positive effects on those students struggling with poverty. As we know, students who fall into this category tend to have lower graduation rates and notably fewer opportunities for higher education after high school. Considering these facts, we need to consider how we can build a network of stakeholders to support children before and after they start school. How can we support the efforts of early childhood educators to expand opportunities for partnerships that impact student achievement?

Michigan Virtual Professional Learning Fast Facts for 2020-21

- *Michigan Virtual* delivered enrollments in 294 online course titles through its Professional Learning Portal between October 1, 2020 and September 30, 2021.
- During that same time frame, *Michigan Virtual* had over 111,700 enrollments in online, blended, and face-to-face training.
- *Michigan Virtual* provided over 176,600 completed State Continuing Education Clock Hours (SCECHs).
- *Michigan Virtual* served more than 44,000 learners.
- Over 21,000 enrollments were provided in Essential Instructional Practices in Early Literacy K-3, Prekindergarten, and School and Center-wide courses.
- Over 13,000 enrollments occurred in courses addressing remote and online teaching and learning, and over 17,500 enrollments in courses about social and emotional learning.
- *Michigan Virtual* provided over 2,600 counselors with courses in College Preparation and Selection as well as Military Options to help meet the new state requirement for counselors.

- Use of *Michigan Virtual's* online professional learning offerings was widespread. Educators enrolled from 100% of the state's ISDs, 98% of the LEA districts, 97% of the PSA districts, and 56% of the nonpublic schools.

Professional Learning Activities

Reflection has been a focus of our professional learning this year. In considering how much effort and work went into supporting students' remote learning during the end of the 2019-20 school year, we placed an emphasis on supporting educators in the field with professional learning that encouraged them to consider what they have learned from emergency teaching, what went well, and what could be improved. As an organization, we also took the opportunity to do some reflection, revising and rebuilding some of our more popular courses⁸ to increase learner engagement, improve our user interface, and increase accessibility.

Over the past year, we also focused on providing support for educators and students related to social and emotional learning (SEL). We engaged teachers and administrators in webinars focused on effective practices as they relate to their own well-being and those of their students. As an organization, *Michigan Virtual* created three courses related to SEL: *Teacher Well-Being*, *Take Care of Yourself*, and *Being a Reflective Teacher*. We also supported initiatives to bring teachers back to the field by partnering with MDE in building *The Future Proud Michigan Educator Facilitator* course.⁹ The focus on reflection, self-care, and social-emotional learning were focal points in several of our partnerships.

Partnerships to Reach Educational Professionals

Through collaborative partnerships, *Michigan Virtual* has been able to build online course content meeting the needs of administrators, teachers, and counselors. Our partnerships during the 2021 fiscal year are listed below in alphabetical order:

- Blue Cross Blue Shield
- 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 Department of Education
- Michigan Elementary and Middle School Principals
- Michigan History Museum
- US Army

These partnerships resulted in new opportunities for educators, counselors, and administrators. The following are just a few examples of courses developed through our partnerships.

Blue Cross Blue Shield of Michigan, MEMSPA, and *Michigan Virtual* have partnered to offer a series of five professional learning courses about suicide prevention for adolescents. These courses were designed to help school leaders and staff identify students who are at risk for suicide and offer specific action steps to assist with appropriate interventions. Developed with subject matter experts from the Yale School of Medicine Department of Psychiatry, the *Adolescent Suicide Prevention Series* features five asynchronous online courses. Each professional learning course is provided at no cost and is SCECH-bearing. Each

course also includes a *School Administrator's Guide* to help administrators facilitate learning and discussion with their school and district staff.

Through the Governor's Emergency Education Relief Fund, Michigan State, University of Michigan, and *Michigan Virtual* worked together to release 14 modules that identify the latest research and effective practices for serving a variety of special populations in face-to-face and remote settings. These professional learning modules focus primarily on inclusive teaching and learning strategies to help educators better serve all student populations, including students with disabilities, those who have experienced trauma, and multilingual learners. As a result of this funding, these modules are provided to Michigan educators at no cost.

As part of our continued work thinking about students and their futures, we have partnered with MDE to create courses for teachers on High School Computer Science Standards.¹⁰ These courses provide an overview of Michigan's K-12 Computer Science Standards and demonstrate how the standards can be integrated with existing teaching practices. We also continue to host *Intro to Computer Science Standards for K-5 Educators*. In addition, we also created and offered many professional learning opportunities focused on pedagogical practices in an online environment. These opportunities included courses such as *Blended Learning for School Leaders*, *Distance Learning Practices*, MDE's *Learner Agency* course, and our *Lessons for Littles* series that focuses on implementing technology for early elementary students in meaningful and age-appropriate ways.

During this past year, we have also partnered with the Michigan History Museum to help develop online content around their educational programs. We worked with their Education Specialist, Rachel Clark, to design, develop, and deploy content focused on the Flint Sit Down Strike of 1936. The content was designed for classroom teachers to use in a face-to-face, hybrid, and/or online formats. The content includes four models that include photographs, charts, maps, and audio from the time to provide students with an immersive learning experience. The content is available for purchase through *Michigan Virtual* or the Michigan History Center's website.

In addition to providing SCECHs for professional learning experiences, we also offer several micro-credentials for Michigan educators. Micro-credentials help enable competency-based professional learning by allowing educators to focus on discrete skills related to their practice and then submit evidence to demonstrate proficiency. This year we launched, in partnership with Michigan Association of Superintendents and Administrators (MASA), a micro-credential related to *Best Practices in Human Resources*,¹¹ which is part of a micro-credential series offered by MASA.

Looking to the Future

Once again, this year has presented new opportunities and challenges. In continued partnerships with educational institutions, we are developing content for not only teachers in the classroom but for all school district staff, with training on supporting students in a variety of areas including social and emotional learning, addressing the needs of all learners, and providing effective practices in online and blended learning. We are not only focused on the well-being of our students, but also on the well-being of our educators. Additionally, we are offering opportunities for educators to explore more student-centered practices, such as project-based learning, inquiry-based learning, and restorative practices.

Research Institute

Section 98 of the State School Aid Act¹² 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.

As part of the work of exploring artificial intelligence (AI) and machine learning in the creation of K-12 digital content, *Michigan Virtual* found success with an AI-based language learning platform for providing personalized skills practice for Spanish, German, and French, which was offered as an experimental learning option in summer 2021. In addition, work on a data-driven AI platform that integrates natively with LMS providers to "nudge" students and increase student engagement was explored. Initial results of this work were shared at the 2021 International Society for Technology in Education (ISTE) annual conference in June 2021. The final thread of work related to AI was focused on a large study of educational stakeholders—students, parents, teachers, and administrators—on their perspectives around the use of AI to support instructional needs, either as a student or teacher aid. Over 1,100 participants were involved in the study, and the findings will be published on the *MVLRI* website as part of our work in catalyzing innovation in K-12 school districts.

An additional study was conducted in spring 2021 with these same students, parents, teachers, and administrators related to work on a mobile application to support students, mentors, and parents. The study revealed the application was found to be most useful if it provided a level of support for counselors in their role in helping students and parents understand and engage more thoroughly with their virtual learning and education pathways and opportunities. The data collected from study participants helped the *Michigan Virtual* team better understand the manner in which students, mentors, and parents might use the tool. Data collection that was focused on the existing features, functions, and content needs of the application also occurred throughout the execution of user focus groups during spring 2021. Participants of this aspect of the research were primarily mentors of online students, and these data were used to develop a roadmap for future development that is scheduled to occur during the 2022 fiscal year.

Michigan Virtual also continued to participate in IMS Global¹³ during the 2021 fiscal year. Specifically, a member of the *Michigan Virtual* senior management team served as the chair of the IMS Global Virtual School Innovation Leaders Network (ILN) as part of the K-12 Statewide Programs Board. This individual has presented on the use of comprehensive learner record standards for virtual schools in November 2020 and has facilitated or delivered the following presentations:

- K-12 Statewide Programs Board meeting (February 2021 and August 2021).
- Virtual School ILN presentation with Christensen Institute, Texas Education Agency, and Virtual Virginia at the IMS Global Quarterly meeting (February 2021).
- Virtual School ILN presentation with Heather Staker from Ready to Blend (May 2021).
- Virtual School ILN presentation with Wisconsin eSchool Network, Ready to Blend, and Virtual Learning Leadership Alliance (June 2021).

During the 2021 fiscal year, *Michigan Virtual* continued its work in the area of competency-based education (CBE). The research and development team developed and published a blog series that

focused on the tools and resources educators can use to create competency-based, blended, or online learning environments.¹⁴ The topics of the blog ranged from providing a general overview of CBE, tips for parents whose children are participating in CBE, what CBE looks like in practice, and useful tools for parents, students, and teachers.

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 continues to position itself as a thought leader through the execution of research related to digital education delivery models. Several research studies were conducted by the *Michigan Virtual* research team during the 2021 fiscal year. One particular statewide study that was designed and executed in partnership with MASA focused on how Michigan schools and districts were using digital resources to meet the needs of students and their families during the pandemic and how they planned on using these resources post-pandemic. This study also focused on the factors that impeded the use of digital resources as well as the factors that accelerated the adoption of such resources.¹⁵

Another statewide study—conducted in partnership with MEMSPA and LivingSLOW—assessed the SEL resources and supports that have been used to help Michigan teachers and administrators.¹⁶ Through an online survey of teachers and educators across Michigan, the *Michigan Virtual* research team examined what district and schoolwide resources have been leveraged, and what strategies teachers and administrators have used to help themselves, which ultimately benefits students, families, and communities. Additionally, attention was paid to the perceived effectiveness of these resources and the strategies and challenges associated with their implementation.

Michigan Virtual expanded its research related to student-centered learning by building off its previous research in partnership with the Michigan CoOp.¹⁷ This group served as a base from which the research team conducted a new study. By connecting with school district administrators and teachers through both an online survey and individual interviews, this study captured the ways in which some Michigan K-12 schools were implementing student-centered learning practices along with the factors that impact the successful implementation of such practices. The aim of this study was to share the effective practices, guidance, and advice gleaned from the study's participants to help other school and district personnel overcome their own barriers to successful implementation of a more student-centered approach to learning.¹⁸

Another study conducted by *Michigan Virtual* focused on competency-based education. This study provided a snapshot of how some school districts within the state of Michigan are working toward the establishment of refined competency-based education models. Specifically, the study revealed the motivations behind transforming traditional, systemic practices to be more competency-based as well as the catalysts and barriers that school leaders experienced as they worked through their transformation. Through this study, the *Michigan Virtual* research team provided some direct recommendations to school leaders seeking to design and implement competency-based models within their schools.¹⁹

Michigan Virtual continues to collaborate with researchers Dr. Kerry Rice and Dr. Andy Hung from Boise State University on a research study that uses *Michigan Virtual* course data to develop early warning predictive models to accurately identify students at-risk of falling behind in their online courses. While this collaboration intended to include a pilot study to test the model developed by Dr. Rice and Dr. Hung, the continued disruption of the COVID-19 pandemic prevented the intervention study scheduled for the 2020-21 school year. Instead, the researchers continued processing data collected during the fall 2020 and spring 2021 academic year from the newly transitioned LMS platform (for testing purposes only). The

purpose of this work was to become familiar with the dataset and to provide interpretable analytic results for the end users (teachers and students).

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 continues to support and promote the National Standards for Quality Online Learning,²⁰ which are a set of standards intended to provide guidance to schools and districts as they design or improve their online and blended learning programs. In a brief published in fall 2020, *Michigan Virtual* shared an overview of the standards providing MDE and school practitioners with a recommended framework to help ensure quality digital learning experiences for the students of Michigan.²¹

Additional efforts to help Michigan schools and districts refine their online learning programs continues, and during the 2021 fiscal year, *Michigan Virtual* emailed schools and districts throughout the state offering to conduct program reviews at no cost. Six schools expressed interest. Four of the five schools expressing interest, however, were unable to complete the process due to shifting priorities related to the ongoing pandemic. One school completed a review of their supplemental online learning program, which concluded with a written report aligned to the National Standards for Quality Online Programs. The report included feedback and resources to improve program effectiveness based on the growth areas identified by the school.

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 annual *Michigan's K-12 Virtual Learning Effectiveness Report*²² was published, and a transmittal letter and infographic were 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 it highlights 2019-20 enrollment totals, completion rates, and the overall impact of virtual courses on K-12 pupils. The report found 121,900 K-12 students took virtual courses in 2019-20, accounting for over 672,000 virtual course enrollments. Local Education Agencies (LEAs) provided over 60% of all virtual enrollments with Public School Academy (PSA) schools adding another 37% of the virtual enrollments. Enrollments were heaviest in the high school grades. The pass rate for virtual courses was 56%. Almost half of the virtual learners passed every virtual course they took. About one in five virtual learners, on the other hand, did not pass any of the virtual courses they took. A little more than two-thirds of Michigan school districts reported having virtual enrollments. About 8% of all K-12 students in the state took a virtual course. In addition to the report, *Michigan Virtual* posted an infographic²³ and a recorded presentation²⁴ 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.

A set of six Guides to Online Learning,²⁵ previously developed by *Michigan Virtual*, have been updated to include changes made to Michigan's Section 21f legislation regarding the shift to pandemic learning that began in March 2020 and continued during the 2020-21 school year. As research in digital learning surfaced promising practices for improving outcomes for students learning online, these practices have been incorporated in the appropriate Guides along with links to any resources freely available for schools to enhance their programs.

Michigan Virtual staff also completed the process of developing a consulting services model that is designed to help schools move forward with the design and implementation of innovative digital learning programs for students. The scope of consulting services to be made available to Michigan schools and districts include, but are not limited to, strategic planning and program design, program implementation and support, instructional design and pedagogy, professional learning planning, and technology resource evaluation and selection. *Michigan Virtual* staff are currently providing consulting services to three Michigan school districts.

Several research studies aimed at sharing effective practices in digital learning were conducted by the *Michigan Virtual* research team during the 2021 fiscal year. One study that focused on learning continuity models was designed to help school leaders understand the learning continuity plans that were designed and implemented by districts in the spring of 2020, as well as teacher, parent, and student perceptions of how these plans were executed. The resulting report, *Learning Continuity in Michigan: Plans and Perceptions from Spring 2020 Emergency Remote Instruction*,²⁶ has been published and can be found on the *Michigan Virtual* website.

The *Michigan Virtual* research team also conducted a national study of teachers and administrators employed by statewide virtual schools or programs, which focused on the key strategies that online teachers use to engage students in online learning environments²⁷ and the ways in which supervising

administrators support these teachers.²⁸ The study, which included 1,721 teachers and 88 supervising administrators, yielded findings that could help schools and districts within Michigan address the challenges they face as they continue to experience increased numbers of online learners in their programs.

Michigan Virtual continues to provide special education resources to schools and districts. During the 2021 fiscal year, special education resources were updated by the research team and converted into more accessible HTML format on the *Michigan Virtual* website. Additionally, a new page was created on the *Michigan Virtual* website to house these resources and make them easier to locate.²⁹

Other methods of sharing effective practices with educators throughout Michigan occurred through the writing and publishing of blog posts. A six-part *School Leader Insights* blog series³⁰ was published to provide guidance to school leaders on how to design, implement, and maintain digital learning programs to meet the instructional needs of their unique school communities. The topics discussed in the blog posts were program vision; curriculum, instruction and assessment; technology; professional learning; school operations; and leadership.

Another six-part blog series—*Student-Centered Learning in Michigan K-12 Schools*³¹—was published to accompany and further explore key findings from the *Michigan Virtual* research report titled, *Student-Centered Learning in Michigan K-12 Schools: Factors that Impact Successful Implementation*, which was published in mid-July. In this blog series, *Michigan Virtual* explored why schools are making learning student-centered and how they are doing so through voice and choice, by taking a competency-based approach, and by monitoring student needs and progress. The research team also described challenges and opportunities schools may encounter along the way as well as ways school leaders can support teachers as they make the shift towards student-centered learning.

An additional blog series based on eight years of research conducted by *Michigan Virtual* was published between March 2021 and September 2021.³² The series covered research on K-12 online best practices; K-12 special populations and motivation; K-12 online learning demographics, effectiveness, evaluation, quality, and policy; blended learning, teaching and professional development; K-12 online teacher preparation, professional development and onsite mentoring; and online learning in higher education. The full blog series is available on the *Michigan Virtual* website.

Throughout the 2021 fiscal year, *Michigan Virtual* also shared effective practices with Michigan schools and districts through the production of BRIGHT podcast episodes.³³ These 25 episodes focused on the future of learning innovations in education. A few examples specific to this directive include:

- Comprehensive Learner Records & CBE - The Fall of Letter Grades & The Rise of Comprehensive Learner Records (featuring Bruce Umpstead from IMS Global Learning Consortium)
- Computational Thinking in Education - The Art of Debugging & How to Think Like a Computer Scientist (featuring Dr. Aman Yadav from Michigan State University)
- Design Thinking in Education - Bringing Big Ideas to Life with Design Thinking (featuring David Byron from Sundberg-Ferar)
- Artificial Intelligence's Impact on Learning & Teaching: How Might Artificial Intelligence Change the Way We Teach? (featuring Lou Aronson from Discourse Analytics)

Additional episodes of the BRIGHT podcast that share effective practices in education can be found on the *Michigan Virtual* website.

(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.

The virtual learning recommendations, shared by *Michigan Virtual* in December 2020, included six areas of opportunity. The first was to explore summer learning options to help mitigate learning loss related to the pandemic. The second was to resume legislative conversations about e-learning days to create greater flexibility for schools to move online in the event of school closures due to inclement weather or as a pandemic or outbreak precaution. The third recommendation was to allocate funding to redesign the state's outdated Michigan Online Educator Certification System (MOECS). The fourth was to revisit retirement policies in the hopes of providing greater flexibility to hire teachers during crises such as the pandemic. The fifth was to change teacher effectiveness reporting responsibility—in the case of third-party online instructors—to the entity providing the instructors rather than the various schools who are contracting for them. The final recommendation was to modify the existing virtual learning data collection process to update the "virtual method" data field from the current options of Not Virtual, Blended Learning, Digital Learning, or Online Course to a reduced set of Not Virtual, Virtual - Credit Recovery, Virtual - Not Credit Recovery.

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

Michigan Virtual continues to maintain the nationally recognized Research Clearinghouse.³⁴ The Clearinghouse is one of, if not the, largest collections in the country cataloguing almost 1,200 resources. The Clearinghouse, and the resources specifically, were promoted through the development, publication, and dissemination of quarterly newsletters sent in January 2021, April 2021, and September 2021. A newsletter was not sent in summer 2021 due to major Clearinghouse platform updates in progress during that time.

Michigan Virtual, through work with a web development firm, updated the Clearinghouse platform to support a better user experience, utilize modern web technologies, and better support accessibility for visitors. The new platform has been launched at the end of summer 2021, and *Michigan Virtual* is gathering feedback from customers, identifying future changes, and providing general maintenance and support for the platform.

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

Michigan Virtual continues to promote and distribute current instructional design standards and guidelines for virtual teaching. In support of this work, the Research Clearinghouse continues to host nearly 70 instructional design resources as well as the National Standards for Quality Online Learning.

Additional support related to effective instructional design occurred during *Michigan Virtual's* Teaching for Today and Tomorrow conference. During this event, the *Michigan Virtual* instructional design staff made two presentations that are now available publicly on YouTube and the *Michigan Virtual* website. The sessions were titled, *Practical Tips, Tools, and Techniques for Teaching Online*³⁵ and *Using a Design Mind for Doing Online Learning*.³⁶ As a way to provide more ongoing support beyond these presentations,

Michigan Virtual instructional designers created three stand-alone resources to share out after the conference, including short modules on live lesson tips, organizing digital content, and using digital tools.

The *Michigan Virtual* instructional design team also contributed to the development of other resources that share effective practices in instructional design. These included a webinar titled, *Accessibility in the Digital Age*,³⁷ a podcast in *Michigan Virtual's* BRIGHT podcast series, and a blog post on how to build an online course.

At the Collaboration of the Minds conference held in August 2021, the *Michigan Virtual* instructional design team led a session where attendees had an opportunity to meet their instructional designers and learn about their approach to designing courses as well as research-based strategies, design templates, and best practices used in the course development process. In addition, the *Michigan Virtual* instructional design staff providing training to 10 instructors during the event.

During the 2021 fiscal year, *Michigan Virtual* also offered 77 free professional learning opportunities focused on instructional design and online learning. Each course provides SCECHs to educators, and *Michigan Virtual* processes those credits. Below are the courses that were available to educators:

- Blended Courses
- Podcast PD
- Transitioning to Remote Teaching
- Introduction to Online Course Facilitation
- Online Lessons with Littles
- Introduction to Blended Learning for School Leaders
- Online National Standards,
- Courses for Whole School
- GLPS: Tech Use Strategies for Supporting Distance Learners
- Online Teacher's Guide
- So You Want to be an Instructional Designer?

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 partnered with the education departments at Michigan State University and University of Michigan to develop and offer 14 courses for educational staff around inclusive teaching practices in a variety of categories. This partnership stemmed from a grant from the Governor's Emergency Education Relief Fund, and the modules created were made available online at no cost to Michigan educators in a non-facilitated format. SCECHs were granted for those educators who completed these courses.

During the 2021 fiscal year, researchers at *Michigan Virtual* reached out to education personnel at Michigan State University, University of Michigan, and Central Michigan University to discuss the possibility of partnering on two research projects focused on school leaders' visions of the future of education in Michigan and student-centered learning. While this outreach did not yield an immediate partnership during the past year, Central Michigan University expressed interest, and a future partnership will be explored.

As part of the process of forming an Innovation Advisory Council, *Michigan Virtual* sought participation from higher education institutions to provide diversity of perspectives and expertise. Two individuals were selected to serve on the council: Dr. Matthew Koehler from the College of Education at Michigan State University and Dr. Stefanie Marshall from the College of Education at the University of Minnesota.

These two council members serve alongside five other individuals with expertise outside of higher education.

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

Lead investigators of the *Michigan Virtual* research team have partnered with multiple organizations to conduct research studies that are highly relevant to Michigan schools and districts. Specifically, *Michigan Virtual* and the Michigan CoOp joined forces to study how student-centered learning practices are being implemented in specific school districts within the state. In addition, a study focused on SEL for educators within the state of Michigan was supported by the MEMSPA. In a third study, *Michigan Virtual* partnered with MASA on a statewide survey that centered on Michigan school districts' vision of digital learning. In yet another study, the member school districts of the Michigan Competency Consortium (MCC) partnered with the research team to investigate the motivations for schools implementing competency-based education along with the challenges and effective practices related to systemwide implementation.

As part of the competency-based education research study conducted by *Michigan Virtual*, the lead investigator of the study worked closely with the MCC to help shape conversations and provide research resources to help the consortium advance their efforts. In addition, the director of the consortium has been contracted by *Michigan Virtual* to play a leadership role within *Michigan Virtual* as a learning strategist. *Michigan Virtual* has also partnered with this group, now renamed the Future of Learning Council, to boost its efforts and maximize impact

Michigan Virtual continues to maintain a partnership with MASA related to the development of professional learning micro-credentials. During the 2021 fiscal year, this partnership resulted in the development of a series of competency-based professional learning courses centered on effective practices in the area of human resources in K-12 schools. The following micro-credentialed courses were created:

- MASA HR Best Practices: Employee Evaluation Course (currently available to educators)
- MASA HR Best Practices: Employee Evaluation Micro-Credential is live
- MASA HR Best Practices for Leadership: District Framework course is live
- MASA HR Best Practices District Framework Micro-Credential is live
- MASA HR Best Practices: Employee Discipline Course (currently in development)
- MASA HR Best Practices: HR Discipline Micro-credential is in development
- MASA HR Hiring Course is in development
- MASA HR Hiring Micro-credential is in development

An additional partnership was formed with Lauren Kazee, founder of LivingSLOW, to create a micro-credentialed professional learning experience on SEL in connection with the GEER Fund. At the close of the 2021 fiscal year, the micro-credential was in the content scripting stage, and is scheduled for release to educators during the 2022 fiscal year.

As *Michigan Virtual* sought participation from external stakeholders to serve on its Innovation Advisory Council, it selected five individuals from the public and private sectors. These individuals were: Lucie Howell, Chief Learning Officer of The Henry Ford; Thomas Arnett, Senior Research Fellow (Education) of the Christensen Institute; Anupum Chugh Sidhu, Instructional Technology Manager of Wayne RESA;

Keeanna Warren, Associate Executive Director of Purdue Polytechnic High Schools; and Tanya Leon, English Teacher at Fraser Public Schools.

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.

As part of an ongoing process to support mentors of virtual students, *Michigan Virtual* conducted a series of internal meetings to discuss the next steps to support mentor development in the field. These conversations included input from a sampling of school district mentors and resulted in a decision to refresh the existing Online Mentor Network content and invite all Michigan mentors—regardless of the provider of their online courses—to collaborate and learn from each other. This network will continue to be a place where mentors can pose questions to spark conversations, allow peer mentors to post questions, and access resources relevant to their role. *Michigan Virtual* also continued the development of a mobile application and regularly updated mentor professional learning courses in its Brightspace LMS and to provide mentors up-to-date resources and guidance.

Michigan Virtual's commitment to supporting mentors of virtual learners was also evident through the efforts it makes to provide a variety of professional learning opportunities for these individuals. *Michigan Virtual* staff held two face-to-face “Mentor Meet-ups” during the spring of 2021. Additionally, *Michigan Virtual* held its annual Mentor Collaboration of the Minds event in August 2021, which was a successful day of learning and collaborating for mentors across the state. Various, smaller mentor training sessions also occurred throughout the fiscal year.

Support for mentors of virtual learners was also provided through *Michigan Virtual* webinar titled, *Best Practices of Mentoring Online Students*. Held in December 2020, the webinar focused on establishing clear expectations for students, enrolling students into courses smoothly, the value of communication with students and teachers, and student accountability. This webinar was available to *Michigan Virtual* mentors as well as any other mentors who were interested.

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's original plan to conduct three student focus groups to identify barriers and opportunities related to virtual learning was modified due to COVID-related restrictions, unconventional school schedules, and other demands on schools and students. It was difficult and distracting for schools to coordinate and hold student focus groups; however, the *Michigan Virtual* team was able to conduct one focus group with 13 students from a large district on the west side of the state. The focus group was conducted virtually with a high level of student participation.

The distribution of end-of-course surveys to both students and professional learners is another way that *Michigan Virtual* collects feedback and insight into possible barriers and opportunities. All learners enrolled in *Michigan Virtual* student and professional learning courses are presented with an optional online questionnaire comprised of questions related to their learning experience. During the October 1, 2020 - September 30, 2021 period, the student end-of-course questionnaire received 4,699 responses, while the professional learning questionnaire received 29,850 responses in that same period.

An online questionnaire was also prepared and distributed to all mentors of students enrolled in *Michigan Virtual* courses as the spring 2021 semester concluded. The survey measured overall satisfaction, the value of specific features of *Michigan Virtual's* programs and tools, the ease of use of the programs and tools, and the quality of *Michigan Virtual* support systems. The questionnaire responses were low in volume relative to prior years, underscoring the unusual nature of the 2020-21 school year. However, the responses received provided both positive feedback and constructive suggestions for improving the mentor experience. In addition to the distribution of the questionnaire, two Mentor Advisory Board meetings were held virtually during the school year allowing for more direct feedback to be received.

The first Mentor Advisory Board meeting of the year was held in October 2020, and the majority of the board was able to attend despite the unique circumstances the pandemic posed. This meeting's focus was on the transition to using the Brightspace LMS, meeting students' needs during a pandemic, how to provide support in remote learning environments, and engaging in a support network across the mentors throughout the challenging school year. The second Mentor Advisory Board meeting was held in March 2021 and focused on the topics of flexible scheduling, Cognia updates, Student Learning Portal updates, the online course Student Orientation Unit, and Count Day requirements.

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 report twice annually. The updates were completed in fall 2020 and spring 2021. The report, which is available on the *Michigan Virtual* website,³⁸ contains the following 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 related to online learning.

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 continued to work collaboratively with schools, districts, and ISDs to make available resources that align to Michigan's K-12 curriculum. Specifically, *Michigan Virtual* continues to send a representative to take part in the strategic work of the Michigan #GoOpen community.³⁹ This individual is working with others in the community to provide awareness of and create professional learning experiences focused on utilizing Open Educational Resources (OER).

Michigan Virtual also offered digital content from over 70 high-quality student courses at no cost to Michigan schools and districts. This effort was intended to continue to help support educators and parents as a resource to support and supplement student learning throughout the ongoing disruptions

caused by the COVID-19 pandemic. Schools and parents remain able to access these resources at no cost.⁴⁰

Throughout the 2021 fiscal year, *Michigan Virtual* continued to make available to Michigan educators the course titled, *#GoOpen: Open Educational Resources in Michigan*, which is currently available and open for enrollment in *Michigan Virtual*'s Professional Learning Portal. This course provides instruction on how and why to use open educational resources, where to find them, and how to incorporate them into the design of online course work. As of October 2021, there had been 5,235 enrollments in the *#GoOpen* course offered freely through *Michigan Virtual*. *Michigan Virtual* has kept this course updated and continued to host, process State Continuing Credit Hours, and provide customer support to users at no cost.

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.

Over the past year, *Michigan Virtual* worked to improve the interface and functionality of the statewide course catalog, completely redesigning the system from the ground up. Working with the development firm Web Ascender, the catalog functionality was updated to include alignment of courses to the National Standards for Quality Online Learning as well as easily being able to add further quality standards when needed. These developments were completed by end of summer 2021 and are currently in use. *Michigan Virtual* continues to monitor feedback from catalog users to improve and maintain the system further, and additional updates are planned for the 2022 fiscal year to support better course administration and cataloging as well as to include expanded abilities to share courses with local schools.

Michigan Virtual currently offers four professional learning opportunities to help schools understand ways in which they could develop high-quality online courses for students. These courses, aligned to the National Standards for Quality Online Courses, are offered at no cost to educators. Course titles include *Getting Started* (focus on enhancing existing teaching practices for online and blended learning), *Course Content & Design* (focus on designing, developing, and deploying blended and online and blended learning), *Assessment* (focus on using measuring student progress in online and blended classrooms), and *Meeting Needs* (focus on meeting students' individual needs in online and blended classrooms).⁴¹ As of October 2021, there were more than 1,300 enrollments in these courses.

During the 2021 fiscal year, *Michigan Virtual* submitted 11 semester-length courses to Quality Matters for re-certification. These courses included the following: *World History & Geography A*, *World History & Geography B*, *AP Physics 1A*, *AP Physics 1B*, *AP Environmental Science A*, *AP Environmental Science B*,

Anatomy & Physiology A, Anatomy & Physiology B, Oceanography A, Oceanography B, and Entrepreneurship. Five new course that are slated to be submitted for initial certification are: *Psychology, Employability Skills, AP Physics C Sem 1, AP Chemistry Sem 1, and AP Computer Science Principles Sem 1.*

Section 21f legislation was recently modified to address the shift to pandemic learning, which began in March 2020 and continued into the 2020-21 school year. The revised Section 21f resources published on the *Michigan Virtual* website to support schools and their online programs have been updated and continued to be available to schools throughout the 2020-21 fiscal year.

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

As part of its ongoing support of the statewide catalog, *Michigan Virtual* maintains knowledge base articles specific to micourses.org, including information for guardians, students, and counselors who want to search the catalog for online courses, instructions for enrolling via the catalog, and companies, districts, or other qualified parties who want to list their online courses in the catalog. Knowledge base articles are routinely audited and updated by *Michigan Virtual* on an as-needed basis or when new functionality within the system is developed. All knowledge base articles can be accessed through the *Michigan Virtual* website.⁴² *Michigan Virtual's* Customer Care Center is also available on business days from 7:30am - 5:00pm ET to answer calls and respond to online support ticket submissions.

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.

Michigan Virtual continued to use an updated Modified Danielson Rubric for more than 250 evaluations of its teachers. Through this process, teachers were provided both the rubric and more personalized narrative feedback to guide their continued growth and improvement. As an organization focused on a growth mindset, *Michigan Virtual* also had individual conversations with each teacher to talk through suggestions, provide additional guidance, and answer any questions they may have. Throughout the year, course “walk-through” reviews were also conducted by *Michigan Virtual* department leads and instructional coaches. In addition, a large portion of the *Michigan Virtual* instructional staff received mid-year evaluation reviews as an opportunity to check on progress and to provide some just-in-time feedback to support their growth in the second half of the school year.

Michigan Virtual also worked with the Virtual Learning Leadership Alliance to provide a comprehensive set of professional learning resources—aligned to the National Standards for Quality Online Teaching—to be made available through the Alliance’s personalized professional learning platform powered by 2gno.me. Within this platform, *Michigan Virtual* provided more than 100 resources aligned to the national standards. Michigan educators have free access to the Alliance’s platform and the *Michigan Virtual* offerings.

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. 2020-21 Districts Served by Michigan Virtual with Student Online Courses

LEA Districts:

Airport Community Schools	Chassell Township S.D.	Grass Lake Community Schools
Alba Public Schools	Cheboygan Area Schools	Greenville Public Schools
Allegan Public Schools	Chelsea School District	Grosse Ile Township Schools
Allen Park Public Schools	Chesaning Union Schools	Grosse Pointe Public Schools
Allendale Public Schools	Chippewa Hills School District	Gull Lake Community Schools
Alma Public Schools	Clare Public Schools	Hamilton Community Schools
Almont Community Schools	Clarkston Community S.D.	Harbor Springs School District
Anchor Bay School District	Clio Area School District	Harper Creek Community S.
Ann Arbor Public Schools	Coloma Community Schools	Harper Woods S.D.
Armada Area Schools	Concord Community Schools	Hart Public School District
Bad Axe Public Schools	Constantine Public S.D.	Hartford Public Schools
Bath Community Schools	Coopersville Area Public S.D.	Hartland Consolidated Schools
Battle Creek Public Schools	Davison Community Schools	Haslett Public Schools
Bay City School District	Dearborn City School District	Hastings Area School District
Beal City Public Schools	Delton Kellogg Schools	Hemlock Public School District
Beaverton Schools	DeWitt Public Schools	Holland City School District
Bedford Public Schools	Dexter Community S.D.	Holly Area School District
Belding Area School District	Durand Area Schools	Holt Public Schools
Bellaire Public Schools	East China School District	Hopkins Public Schools
Bellevue Community Schools	East Grand Rapids Public S.	Houghton Lake Comm.S.
Benzie County Central Schools	East Jordan Public Schools	Houghton-Portage Township S.D.
Berkley School District	East Lansing School District	Howell Public Schools
Berrien Springs Public Schools	Eaton Rapids Public Schools	Hudson Area Schools
Birch Run Area Schools	Edwardsburg Public Schools	Hudsonville Public S.D.
Birmingham Public Schools	Elk Rapids Schools	Huron School District
Bloomfield Hills Schools	Engadine Consolidated Schools	Huron Valley Schools
Bloomington Public S.D.	Escanaba Area Public Schools	Imlay City Community Schools
Boyne City Public Schools	Fairview Area School District	Ionia Public Schools
Brandon S.D. (Oakland)	Farmington Public S.D.	Iron Mountain Public Schools
Breckenridge Community S.	Fennville Public Schools	Ishpeming Public S.D. No. 1
Breitung Township S.D.	Fenton Area Public Schools	Ithaca Public Schools
Bridgman Public Schools	Ferndale Public Schools	Jackson Public Schools
Brighton Area Schools	Forest Hills Public Schools	Jenison Public Schools
Brimley Area Schools	Fowler Public Schools	Johannesburg-Lewiston Area S.
Brown City Community Schools	Fowlerville Community Schools	Kalamazoo Public Schools
Buchanan Community Schools	Frankenmuth School District	Kaleva Norman Dickson S.D.
Byron Area Schools	Frankfort-Elberta Area Schools	Kalkaska Public Schools
Byron Center Public Schools	Freeland Community S.D.	Kearsley Community S.D.
Cadillac Area Public Schools	Fruitport Community Schools	Kelloggsville Public Schools
Caledonia Community Schools	Fulton Schools	Kenowa Hills Public Schools
Carney-Nadeau Public Schools	Galesburg-Augusta Comm. S.	Kent City Community Schools
Caro Community Schools	Gaylord Community Schools	Kentwood Public Schools
Carson City-Crystal Area S.	Gibraltar School District	Kingston Community S.D.
Caseville Public Schools	Gladstone Area Schools	Laingsburg Community Schools
Cass City Public Schools	Gladwin Community Schools	Lake Fenton Community Schools
Cedar Springs Public Schools	Gobles Public School District	Lake Linden-Hubbell S.D.
Centreville Public Schools	Grand Haven Area Public S.	Lake Shore Public S. (Macomb)
Charlevoix Public Schools	Grand Ledge Public Schools	Lakeshore S.D. (Berrien)
Charlotte Public Schools	Grandville Public Schools	Lakeview Public S. (Macomb)

Lakeview S.D. (Calhoun)
 Lakewood Public Schools
 L'Anse Creuse Public Schools
 Lansing Public School District
 Lawton Community S.D.
 Leland Public School District
 Les Cheneaux Comm. S.
 Leslie Public Schools
 Lincoln Consolidated S.D.
 Livonia Public Schools S.D.
 Lowell Area Schools
 Ludington Area School District
 Mackinac Island Public Schools
 Mackinaw City Public Schools
 Madison S.D. (Lenawee)
 Manchester Community Schools
 Manistee Area Public Schools
 Manistique Area Schools
 Marion Public Schools
 Marlette Community Schools
 Marquette Area Public Schools
 Marshall Public Schools
 Martin Public Schools
 Marysville Public Schools
 Mason Public Schools (Ingham)
 Mattawan Consolidated School
 Memphis Community Schools
 Mendon Community S.D.
 Michigan Center S.D.
 Milan Area Schools
 Millington Community Schools
 Monroe Public Schools
 Montabella Community Schools
 Montague Area Public Schools
 Morenci Area Schools
 Munising Public Schools
 NICE Community School District
 Niles Community Schools
 North Branch Area Schools
 North Central Area Schools
 North Dickinson County Schools
 North Huron School District
 North Muskegon Public Schools
 Northport Public S.D.
 Northview Public Schools
 Northville Public Schools
 Novi Community School District

Oakridge Public Schools
 Okemos Public Schools
 Olivet Community Schools
 Orchard View Schools
 Oscoda Area Schools
 Otsego Public Schools
 Ovid-Elsie Area Schools
 Owosso Public Schools
 Oxford Community Schools
 Parchment School District
 Paw Public School District
 Peck Community School District
 Pennfield Schools
 Perry Public Schools
 Pewamo-Westphalia Comm. S.
 Pickford Public Schools
 Pinckney Community Schools
 Pittsford Area Schools
 Plainwell Community Schools
 Plymouth-Canton Comm. S.
 Port Huron Area S.D.
 Portage Public Schools
 Portland Public Schools
 Quincy Community Schools
 Ravenna Public Schools
 Redford Union Schools, D. No. 1
 Reed City Area Public Schools
 Richmond Community Schools
 Riverview Community S.D.
 Rochester Community S.D.
 Rockford Public Schools
 Romeo Community Schools
 Roscommon Area Public Schools
 Royal Oak Schools
 Rudyard Area Schools
 Saginaw, S.D.t of the City of
 Saline Area Schools
 Sand Creek Community Schools
 Sandusky Community S.D.
 Saranac Community Schools
 Saugatuck Public Schools
 Sault Ste. Marie Area Schools
 Schoolcraft Community Schools
 Shepherd Public Schools
 South Haven Public Schools
 South Lyon Community Schools
 South Redford School District

Southgate Community S.D.
 Sparta Area Schools
 Spring Lake Public Schools
 Springport Public Schools
 St. Ignace Area Schools
 St. Johns Public Schools
 St. Joseph Public Schools
 Standish-Sterling Comm. S.
 Stockbridge Community Schools
 Sturgis Public Schools
 Summerfield Schools
 Swartz Creek Community S.
 Tawas Area Schools
 Tecumseh Public Schools
 Thornapple Kellogg S.D.
 Three Rivers Community Schools
 Traverse City Area Public S.
 Trenton Public Schools
 Tri County Area Schools
 Ubly Community Schools
 Union City Community Schools
 Unionville-Sebewaing Area S.D.
 Utica Community Schools
 Van Buren Public Schools
 Vassar Public Schools
 Vicksburg Community Schools
 Walkerville Public Schools
 Walled Lake Consolidated S.
 Watersmeet Township S.D.
 Watervliet School District
 Waverly Community Schools
 Wayland Union Schools
 Wayne-Westland Comm. S.D.
 Webberville Community S.
 West Bloomfield S.D.
 West Branch-Rose City Area S.
 West Iron County Public S.
 West Ottawa Public S.D.
 Western School District
 Whitefish Township Schools
 Whitehall District Schools
 Whitmore Lake Public S.D.
 Williamston Community S.
 Yale Public Schools
 Zeeland Public Schools

PSA Districts

Arbor Preparatory High School
Black River Public S Middle/High
Blue Water Middle College
Academy
Bradford Academy
Canton Preparatory High School
Casman Alternative Academy
Charyl Stockwell Academy. H.S.
Concord Academy - Boyne
Countryside Academy -
Middle/High School

DeTour Arts and Technology
Academy
Excel Charter Academy
Flextech High School Shepherd
Grand River Preparatory H.S.
Great Lakes Learning Academy
High School
Innocademy
Island City Academy
Joseph K. Lumsden Bahweting
Anishnabe Academy
Kensington Woods Schools

Kingsbury Country Day School
LifeTech Academy
Livingston Classical Academy
New School High
NexTech High School of Lansing
Renaissance Public S. Acad.
Waterford Montessori Academy
Wellspring Preparatory H.S.
West Michigan Acad. of Arts and
Academics
West Michigan Aviation
Academy

Nonpublic Schools

Academy of Sacred Heart
Austin Catholic High School
Brother Rice High School
Cabrini High School
Calvin Christian High School
Cardinal Mooney Catholic S.
Detroit Catholic Central H.S.
Divine Child High School
Farber Hebrew Day School -
Yeshivat Akiva
Fr. Gabriel Richard High School
Gaylord St. Mary Cathedral S.

Grand Rapids Christian H.S.
Hackett Catholic Prep
Holland Christian High School
Interlochen Arts Academy
Lansing Catholic Central H.S.
Lansing Christian School
Mercy High School
Muskegon Catholic Central
Nouvel Catholic Central H.S.
Plymouth Christian Academy
Regina High School
Shrine Catholic H.S. & Academy

South Christian High School
Southfield Christian School
St. Catherine of Siena Academy
St. Francis de Sales School
St. Gerard School
St. Mary Catholic School-Sault
Sainte Marie
St. Mary School-Lake Leelanau
Unity Christian High School
Valley Lutheran High School
Western Michigan Christian H.S.

Figure 2. 2020-21 Michigan Virtual ISD, LEA, PSA District and Nonpublic Schools with Student Enrollments



Figure 3. 2020-21 Michigan Virtual Student Courses Offered with Performance Data

NCES Subject Area	Course Name	Enroll Count	Pass Rate
Business and Marketing	Accounting A	246	83%
Business and Marketing	Accounting B	130	89%
Business and Marketing	BUS 153: Business Law	< 10	NA
Business and Marketing	Business Ethics	368	82%
Business and Marketing	Entrepreneurship	307	67%
Business and Marketing	Hos. & Tourism: Traveling the Globe	165	93%
Business and Marketing	Sports and Entertainment Marketing	350	90%
Commun. & Audio/Visual Technology	Journalism (Advanced)	10	90%
Commun. & Audio/Visual Technology	Journalism (Introduction)	150	77%
Computer & Information Sciences	Adv. Prog: Mobile Apps & Game Design	47	53%
Computer & Information Sciences	Advanced Web Design: JavaScript	32	84%
Computer & Information Sciences	AP Computer Science A (Sem 1)	148	84%
Computer & Information Sciences	AP Computer Science A (Sem 2)	112	92%
Computer & Information Sciences	AP Computer Sci. Principles (Sem 1)	66	88%
Computer & Information Sciences	AP Computer Sci. Principles (Sem 2)	61	92%
Computer & Information Sciences	Basic Web Design: HTML & CSS	178	67%
Computer & Information Sciences	CCNA 1: Introduction to Networking	28	NA
Computer & Information Sciences	CCNA 2: Routing & Switching Ess.	< 10	NA
Computer & Information Sciences	CCNA 3: Enter. Netwk., Security & Auto.	< 10	NA
Computer & Information Sciences	CIS 110: CIS Concepts and Careers	0	NA
Computer & Information Sciences	CIS 115: Microcomputer Applications	< 10	NA
Computer & Information Sciences	Computer Basics (Google Suite)	299	48%
Computer & Information Sciences	Digital Information Technology A	87	79%
Computer & Information Sciences	Digital Information Technology B	29	90%
Computer & Information Sciences	Foundations of Programming A	177	84%
Computer & Information Sciences	Foundations of Programming B	83	89%
Computer & Information Sciences	Java Programming A	100	62%
Computer & Information Sciences	Java Programming B	30	73%
Computer & Information Sciences	JavaScript Game Design	112	78%
Computer & Information Sciences	Linux Essentials	40	NA
Computer & Information Sciences	Linux Operating System 1	18	NA
Computer & Information Sciences	Linux Operating System 2	< 10	NA
Computer & Information Sciences	Networking & Cybersecurity Essentials	77	NA
Computer & Information Sciences	Procedural Programming	28	79%
Computer & Information Sciences	Social Media	463	68%
Engineering and Technology	Bioethics	174	87%
English Language and Literature	American Literature A - English 11-12	363	59%
English Language and Literature	American Literature B - English 11-12	261	74%

NCES Subject Area	Course Name	Enroll Count	Pass Rate
English Language and Literature	AP Eng. Lang. & Composition (Sem 1)	140	73%
English Language and Literature	AP Eng. Lang. & Composition (Sem 2)	111	85%
English Language and Literature	AP Eng. Lit. & Composition (Sem 1)	130	87%
English Language and Literature	AP Eng. Lit. & Composition (Sem 2)	120	89%
English Language and Literature	British Literature A - English 11-12	366	64%
English Language and Literature	British Literature B - English 11-12	288	73%
English Language and Literature	Composition (Advanced)	57	81%
English Language and Literature	Composition (Beginning)	115	70%
English Language and Literature	EdReady English (Grades 10-12)	< 10	NA
English Language and Literature	EdReady English (Grades 8-9)	< 10	NA
English Language and Literature	ENG 101: English Composition I	< 10	NA
English Language and Literature	ENG 102: English Composition II	< 10	NA
English Language and Literature	English 10A	426	57%
English Language and Literature	English 10B	294	65%
English Language and Literature	English 9A	429	51%
English Language and Literature	English 9B	238	59%
English Language and Literature	Essentials H.S. English 1A	216	46%
English Language and Literature	Essentials H.S. English 1B	150	41%
English Language and Literature	Essentials H.S. English 2A	146	34%
English Language and Literature	Essentials H.S. English 2B	112	46%
English Language and Literature	Essentials H.S. English 3A	127	29%
English Language and Literature	Essentials H.S. English 3B	85	39%
English Language and Literature	Essentials H.S. English 4A	68	46%
English Language and Literature	Essentials H.S. English 4B	42	60%
English Language and Literature	Language Arts A (6th Grade)	185	46%
English Language and Literature	Language Arts A (7th Grade)	206	45%
English Language and Literature	Language Arts A (8th Grade)	247	49%
English Language and Literature	Language Arts B (6th Grade)	85	53%
English Language and Literature	Language Arts B (7th Grade)	114	50%
English Language and Literature	Language Arts B (8th Grade)	153	52%
English Language and Literature	Lingco Language Learning	< 10	NA
English Language and Literature	Mythology & Folklore: Legendary Tales	377	80%
English Language and Literature	Reading for College Success	63	83%
English Language and Literature	World Literature	89	88%
Fine and Performing Arts	AP Art History (Sem 1)	30	73%
Fine and Performing Arts	AP Art History (Sem 2)	20	90%
Fine and Performing Arts	ART 120: Art Appreciation	< 10	NA
Fine and Performing Arts	Digital Photography	287	75%
Fine and Performing Arts	Film Studies: American Film Survey	275	85%

NCES Subject Area	Course Name	Enroll Count	Pass Rate
Fine and Performing Arts	Guitar 1A	172	70%
Fine and Performing Arts	Guitar 1B	39	74%
Fine and Performing Arts	Guitar 2A	11	73%
Fine and Performing Arts	Guitar 2B	< 10	100%
Fine and Performing Arts	Middle School Guitar 1A	0	NA
Fine and Performing Arts	Middle School Guitar 1B	0	NA
Fine and Performing Arts	Music Appreciation Odyssey	184	65%
Fine and Performing Arts	Visual Art Comprehension I	199	66%
Foreign Language and Literature	American Sign Language 1A	1419	65%
Foreign Language and Literature	American Sign Language 1B	814	84%
Foreign Language and Literature	American Sign Language 2A	506	76%
Foreign Language and Literature	American Sign Language 2B	382	83%
Foreign Language and Literature	AP Chinese (Sem 1)	30	63%
Foreign Language and Literature	AP Chinese (Sem 2)	22	77%
Foreign Language and Literature	AP French (Sem 1)	14	64%
Foreign Language and Literature	AP French (Sem 2)	16	88%
Foreign Language and Literature	AP Spanish (Sem 1)	54	83%
Foreign Language and Literature	AP Spanish (Sem 2)	58	91%
Foreign Language and Literature	Chinese 1A	92	73%
Foreign Language and Literature	Chinese 1B	54	89%
Foreign Language and Literature	Chinese 2A	46	87%
Foreign Language and Literature	Chinese 2B	41	93%
Foreign Language and Literature	Chinese 3A	45	84%
Foreign Language and Literature	Chinese 3B	36	94%
Foreign Language and Literature	Chinese 4A	35	49%
Foreign Language and Literature	Chinese 4B	17	100%
Foreign Language and Literature	FR 101: Introductory French I	< 10	NA
Foreign Language and Literature	French 1A	255	62%
Foreign Language and Literature	French 1A (Grades 6-8)	23	83%
Foreign Language and Literature	French 1B	193	69%
Foreign Language and Literature	French 1B (Grades 6-8)	20	55%
Foreign Language and Literature	French 2A	224	65%
Foreign Language and Literature	French 2A (Grades 6-8)	< 10	83%
Foreign Language and Literature	French 2B	201	75%
Foreign Language and Literature	French 2B (Grades 6-8)	< 10	100%
Foreign Language and Literature	French 3A	53	51%
Foreign Language and Literature	French 3B	26	81%
Foreign Language and Literature	German 1A	213	54%
Foreign Language and Literature	German 1A (Grades 6-8)	17	76%

NCES Subject Area	Course Name	Enroll Count	Pass Rate
Foreign Language and Literature	German 1B	114	76%
Foreign Language and Literature	German 1B (Grades 6-8)	< 10	88%
Foreign Language and Literature	German 2A	120	76%
Foreign Language and Literature	German 2B	86	88%
Foreign Language and Literature	Japanese 1A	240	65%
Foreign Language and Literature	Japanese 1B	136	88%
Foreign Language and Literature	Japanese 2A	74	86%
Foreign Language and Literature	Japanese 2B	64	94%
Foreign Language and Literature	Latin 1A	95	69%
Foreign Language and Literature	Latin 1B	53	85%
Foreign Language and Literature	Latin 2A	28	93%
Foreign Language and Literature	Latin 2B	23	91%
Foreign Language and Literature	Spanish 1A	418	56%
Foreign Language and Literature	Spanish 1A (Grades 6-8)	162	34%
Foreign Language and Literature	Spanish 1B	292	57%
Foreign Language and Literature	Spanish 1B (Grades 6-8)	81	30%
Foreign Language and Literature	Spanish 2A	411	65%
Foreign Language and Literature	Spanish 2A (Grades 6-8)	14	93%
Foreign Language and Literature	Spanish 2B	325	74%
Foreign Language and Literature	Spanish 2B (Grades 6-8)	< 10	100%
Foreign Language and Literature	Spanish 3A	182	60%
Foreign Language and Literature	Spanish 3B	102	77%
Foreign Language and Literature	Spanish 4A	102	63%
Foreign Language and Literature	Spanish 4B	70	90%
Health Care Sciences	HE 101: Math Related to Drug Admin.	< 10	NA
Health Care Sciences	HE 102: Medical Terminology	< 10	NA
Health Care Sciences	Medical Terminology	588	85%
Life and Physical Sciences	Anatomy and Physiology A	307	77%
Life and Physical Sciences	Anatomy and Physiology B	188	89%
Life and Physical Sciences	AP Biology (Sem 1)	99	78%
Life and Physical Sciences	AP Biology (Sem 2)	81	91%
Life and Physical Sciences	AP Chemistry (Sem 1)	50	46%
Life and Physical Sciences	AP Chemistry (Sem 2)	23	65%
Life and Physical Sciences	AP Environmental Science (Sem 1)	114	88%
Life and Physical Sciences	AP Environmental Science (Sem 2)	107	91%
Life and Physical Sciences	AP Physics 1 (Sem 1)	84	71%
Life and Physical Sciences	AP Physics 1 (Sem 2)	66	88%
Life and Physical Sciences	AP Physics 2 (Sem 1)	18	78%
Life and Physical Sciences	AP Physics 2 (Sem 2)	15	93%

NCES Subject Area	Course Name	Enroll Count	Pass Rate
Life and Physical Sciences	AP Physics C (Sem 1)	55	80%
Life and Physical Sciences	AP Physics C (Sem 2)	33	91%
Life and Physical Sciences	Astronomy	379	76%
Life and Physical Sciences	BIO 101: Essentials of Biology	< 10	NA
Life and Physical Sciences	BIO 110: Cell Biology Basics	< 10	NA
Life and Physical Sciences	Biology A	473	56%
Life and Physical Sciences	Biology B	270	70%
Life and Physical Sciences	Chemistry A	356	60%
Life and Physical Sciences	Chemistry B	246	66%
Life and Physical Sciences	Earth Science A	202	65%
Life and Physical Sciences	Earth Science B	89	61%
Life and Physical Sciences	Environmental Science A	110	70%
Life and Physical Sciences	Environmental Science B	49	86%
Life and Physical Sciences	Essentials Biology A	135	52%
Life and Physical Sciences	Essentials Biology B	83	41%
Life and Physical Sciences	Essentials Chemistry A	87	48%
Life and Physical Sciences	Essentials Chemistry B	68	54%
Life and Physical Sciences	GEO 101: Earth Science	< 10	NA
Life and Physical Sciences	Oceanography A	210	78%
Life and Physical Sciences	Oceanography B	72	83%
Life and Physical Sciences	Physical Science A	138	49%
Life and Physical Sciences	Physical Science B	58	71%
Life and Physical Sciences	Physics A	276	77%
Life and Physical Sciences	Physics B	228	80%
Life and Physical Sciences	Science A (6th Grade)	184	45%
Life and Physical Sciences	Science A (7th Grade)	206	50%
Life and Physical Sciences	Science A (8th Grade)	246	50%
Life and Physical Sciences	Science B (6th Grade)	98	51%
Life and Physical Sciences	Science B (7th Grade)	140	54%
Life and Physical Sciences	Science B (8th Grade)	169	63%
Life and Physical Sciences	Veterinary Sci.: The Care of Animals	299	85%
Mathematics	Algebra 1A	459	52%
Mathematics	Algebra 1B	257	74%
Mathematics	Algebra 2A	529	60%
Mathematics	Algebra 2B	373	64%
Mathematics	AP Calculus AB (Sem 1)	68	87%
Mathematics	AP Calculus AB (Sem 2)	74	82%
Mathematics	AP Calculus BC (Sem 1)	58	81%
Mathematics	AP Calculus BC (Sem 2)	51	84%

NCES Subject Area	Course Name	Enroll Count	Pass Rate
Mathematics	AP Statistics (Sem 1)	119	81%
Mathematics	AP Statistics (Sem 2)	99	87%
Mathematics	Calculus A	49	82%
Mathematics	Calculus B	26	77%
Mathematics	EdReady Math (4th Grade)	< 10	NA
Mathematics	EdReady Math (5th Grade)	0	NA
Mathematics	EdReady Math (6th Grade)	< 10	NA
Mathematics	EdReady Math (7th Grade)	0	NA
Mathematics	EdReady Math (8th Grade)	< 10	NA
Mathematics	EdReady Math (HS Algebra 1)	< 10	NA
Mathematics	EdReady Math (HS Algebra 2)	< 10	NA
Mathematics	EdReady Math (HS Geometry)	< 10	NA
Mathematics	EdReady Math (HS Trig./PreCalculus)	0	NA
Mathematics	EdReady Math (SAT Math Prep)	< 10	NA
Mathematics	Essentials Algebra 1A	192	39%
Mathematics	Essentials Algebra 1B	144	32%
Mathematics	Essentials Algebra 2A	162	52%
Mathematics	Essentials Algebra 2B	110	65%
Mathematics	Essentials Geometry A	142	44%
Mathematics	Essentials Geometry B	107	52%
Mathematics	Geometry A	515	60%
Mathematics	Geometry B	376	66%
Mathematics	Mathematics A (6th Grade)	163	43%
Mathematics	Mathematics A (7th Grade)	215	46%
Mathematics	Mathematics A (8th Grade Pre-Algebra)	238	47%
Mathematics	Mathematics B (6th Grade)	80	53%
Mathematics	Mathematics B (7th Grade)	118	51%
Mathematics	Mathematics B (8th Grade Pre-Algebra)	154	55%
Mathematics	Mathematics in the Workplace	281	83%
Mathematics	Mathematics of Baseball	86	88%
Mathematics	Mathematics of Personal Finance	516	76%
Mathematics	MTH 104: Foundations of Math	< 10	NA
Mathematics	MTH 113: Pre-Calculus	< 10	NA
Mathematics	MTH 120: Introduction to Statistics	< 10	NA
Mathematics	PreCalculus A: Algebra Review & Trig.	314	77%
Mathematics	PreCal B: Func. & Graphical Analysis	220	82%
Mathematics	Probability and Statistics	183	77%
Miscellaneous	Career Planning	678	74%
Miscellaneous	Careers - Find Your Future	361	64%

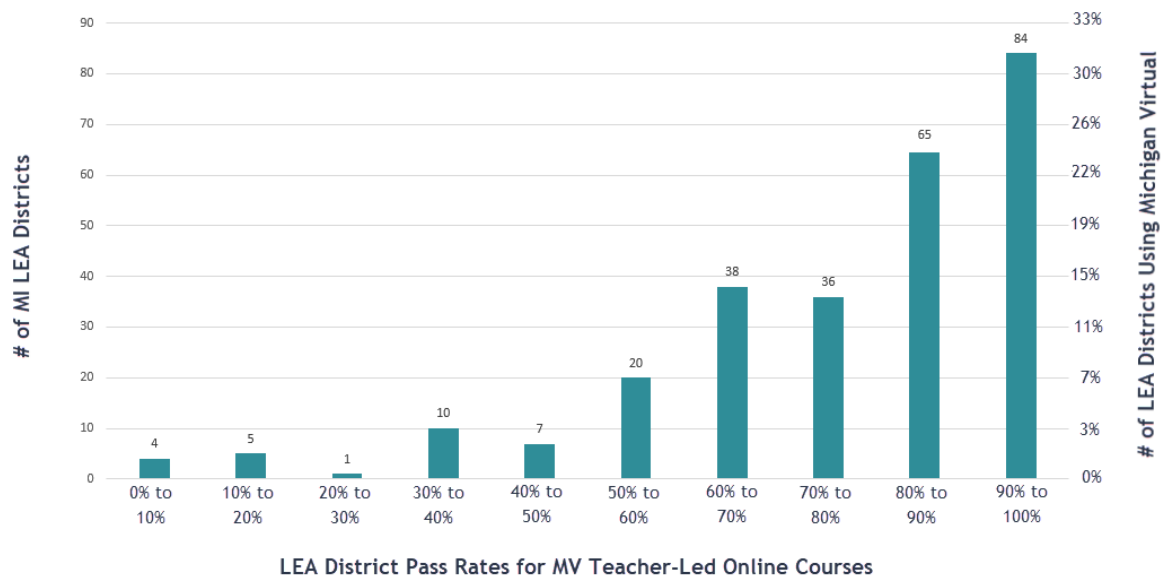
NCES Subject Area	Course Name	Enroll Count	Pass Rate
Miscellaneous	Character Education	226	38%
Miscellaneous	Employability Skills	388	86%
Miscellaneous	Leadership Skills Development	103	73%
Miscellaneous	Leadership Skills Dev. A (Grades 6-8)	179	41%
Miscellaneous	Leadership Skills Dev. B (Grades 6-8)	24	63%
Miscellaneous	Study Skills	464	69%
Physical, Health, and Safety Ed.	Health Education	899	80%
Physical, Health, and Safety Ed.	Health Education (Abstinence Only)	152	88%
Physical, Health, and Safety Ed.	Personal Fitness	952	77%
Public, Protective, and Gov. Service	CJ 101: Intro. to Criminal Justice	< 10	NA
Public, Protective, and Gov. Service	Forensic Science	465	77%
Religious Education and Theology	World Religions: Exploring Diversity	103	83%
Social Sciences and History	Anthro. I: Uncovering Human Mysteries	105	76%
Social Sciences and History	AP Human Geography (Sem 1)	32	84%
Social Sciences and History	AP Human Geography (Sem 2)	27	93%
Social Sciences and History	AP Macroeconomics	185	94%
Social Sciences and History	AP Microeconomics	196	93%
Social Sciences and History	AP Psychology (Sem 1)	266	81%
Social Sciences and History	AP Psychology (Sem 2)	270	91%
Social Sciences and History	AP U.S. Government and Politics	189	85%
Social Sciences and History	AP U.S. History (Sem 1)	119	82%
Social Sciences and History	AP U.S. History (Sem 2)	99	83%
Social Sciences and History	AP World History: Modern (Sem 1)	117	75%
Social Sciences and History	AP World History: Modern (Sem 2)	96	80%
Social Sciences and History	Archaeology: Detectives of the Past	74	80%
Social Sciences and History	Civics	815	82%
Social Sciences and History	Criminology	652	76%
Social Sciences and History	Economics	817	82%
Social Sciences and History	Economics of Personal Finance	174	86%
Social Sciences and History	Essentials Economics	94	41%
Social Sciences and History	Essentials U.S. Government	101	42%
Social Sciences and History	Essentials U.S. History A	105	48%
Social Sciences and History	Essentials U.S. History B	82	44%
Social Sciences and History	Essentials World History A	94	47%
Social Sciences and History	Essentials World History B	73	34%
Social Sciences and History	GEO 233: World Regional Geography	0	NA
Social Sciences and History	HIS 101: Hist. of Western Civ. to 1715	< 10	NA
Social Sciences and History	HIS 102: Hist. of West. Civ. Since 1715	0	NA
Social Sciences and History	HIS 150: Hist. of the U.S., 1877 to Prst	< 10	NA

NCES Subject Area	Course Name	Enroll Count	Pass Rate
Social Sciences and History	Middle School U.S. History A	310	51%
Social Sciences and History	Middle School U.S. History B	166	58%
Social Sciences and History	Middle School World History A	435	42%
Social Sciences and History	Middle School World History B	186	55%
Social Sciences and History	Native American History	89	79%
Social Sciences and History	Philosophy: The Big Picture	107	88%
Social Sciences and History	PS 101: Introd. to Political Science	< 10	NA
Social Sciences and History	PSY 180: Introduction to Psychology	12	NA
Social Sciences and History	PSY 220: Life Span Dev. Psychology	0	NA
Social Sciences and History	PSY 230: Psy. of Eff. Leader. & Super.	0	NA
Social Sciences and History	PSY 260: Abnormal Psychology	< 10	NA
Social Sciences and History	Psychology	464	71%
Social Sciences and History	SOC 101: Principles of Sociology	< 10	NA
Social Sciences and History	Sociology I: Introduction to Sociology	283	82%
Social Sciences and History	Sociology II: Social Problems	83	86%
Social Sciences and History	U.S. History and Geography A	433	57%
Social Sciences and History	U.S. History and Geography B	288	74%
Social Sciences and History	World History and Geography A	478	64%
Social Sciences and History	World History and Geography B	383	82%

Figure 4. 2020-21 Michigan Virtual Student Performance Data by NCES Subject Area

NCES Subject Area	Attempted Count	Withdrawn	Completed/Failed	Michigan Virtual Pass Rate	Statewide 19 20 Pass Rate ⁴³
Business and Marketing	1,566	1%	16%	83%	69%
Commun. and Audio/Visual Tech.	160	2%	21%	78%	64%
Computer and Information Sciences	2,052	3%	25%	72%	63%
Engineering and Technology	174	0%	13%	87%	66%
English Language and Literature	5,803	4%	36%	60%	54%
Fine and Performing Arts	1,220	3%	27%	74%	58%
Foreign Language and Literature	8,123	3%	27%	70%	56%
Health Care Sciences	588	1%	14%	85%	69%
Life and Physical Sciences	6,111	4%	29%	68%	54%
Mathematics	6,478	4%	33%	64%	52%
Miscellaneous	2,423	3%	29%	67%	51%
Physical, Health, and Safety Education	2,003	2%	19%	79%	61%
Public, Protective, and Gov. Service	465	2%	21%	77%	74%
Religious Education and Theology	103	2%	15%	83%	80%
Social Sciences and History	8,487	3%	24%	73%	58%

Figure 5. 2020-21 Michigan Virtual Student Performance Data by LEA District



Appendix B - Michigan Virtual Professional Enrollment Data
Figure 6. 2020-21 Michigan Virtual Professional Learning Courses

Course Name	Enroll Count
#GoOpen: Open Educational Resources in Michigan	2,220
21st Century Skills	<10
5D+ Indicators of High-Quality Instruction	33
5D/D+ Assessment for Student Learning	19
5D/D+ Classroom Environment & Culture	20
5D/D+ Curriculum & Pedagogy	<10
5D/D+ Professional Collaboration & Communication	10
5D/D+ Purpose	12
5D/D+ Student Engagement	33
A to Z Grant Writing	29
Adolescent Suicide Prevention: Best Practices – A Team Approach	<10
Adolescent Suicide Prevention: Intervention & School Policies	245
Anti-Racism and Social Justice Teaching and Leadership	199
Anti-Racist Trauma-Informed Practice in Pre K-12 Education	10
Assessments in the Blended Classroom	35
Basic First Aid	2,057
Being a Reflective Teacher During a Pandemic	1,297
Blended Classroom Design	34
Blogging and Podcasting for Beginners	<10
Bloodborne Pathogens	11,190
Building a College List	50
Building Teams That Work	34
Career Counseling: Building a Resume	408
Changing Minds to Address Poverty in the Classroom	2,615
Chemical Safety	<10
College Counseling for 9-10 Graders	56
College Counseling: Building a College List	344
College Counseling: Developing College Counseling Curriculum	191
College Counseling: Effective Meetings with Juniors	301
College Counseling: Relationships with Admissions Officers	223
College Counseling: Start Early with 9-10 Graders	295
College Counseling: The College Selection Process	56
College Counseling: Writing Effective Counselor Letters	243
Conflict Resolution Strategies	334
Content Literacy: Grades 6-12	<10
Coronavirus (COVID-19) Prevention in the Workplace	660

Course Name	Enroll Count
Coronavirus Prevention Course	573
Counseling in the College Selection Process	<10
CPR Refresher	882
Creating Classroom Centers	42
Creating the Inclusive Classroom: Strategies for Success	14
Curriculum Leadership Institute - Phase I	40
Differentiated Instruction: Maximizing Learning for All	2,242
Differentiating K-12 Assessments	<10
Digital Content in the Blended Classroom	49
Discover Sign Language	47
Discrimination in the Workplace	343
Distance Learning Playbook - Book Study	42
Diversity in the Workplace	376
DLN: A Teacher's Guide to Khan Academy	71
DLN: Administrator Simulator - Staff Accountability	<10
DLN: Administrator Simulator - Student Discipline	<10
DLN: Administrator Simulator - Title IX	<10
DLN: Curriculum & Instruction Alignment	<10
DLN: Disciplinary Literacy for Secondary Leaders	124
DLN: Disciplinary Literacy for Secondary Leaders with Action Plan	<10
DLN: Disciplinary Literacy for Secondary Leaders with Coaching	11
DLN: Foundations of Restorative Practices & Circles	81
DLN: Getting to Know the SAT Suite of Assessments	<10
DLN: Implementing Official SAT Practice on Khan Academy in Your School	13
DLN: Leading Collaborative Meetings in a Virtual World	18
DLN: Observation & Feedback	14
DLN: Project Gameplan - Keeping Compliant Scenarios	<10
DLN: School Culture: Creating an Inclusive Learning Environment	<10
DLN: School Improvement	<10
DLN: School Law 101: What Principals Must Know	12
DLN: School Safety Best Practices	<10
DLN: Strategies for Using SAT Suite Data in Schools	187
DLN: Student Mental Health 101	114
DLN: Trauma Informed Schools: A Whole School Approach	61
DLN: Understanding Human Behavior Through Restorative Practices	76
DLN: Using AP Potential for Opportunity and Access	137
DLN: Using Surveys For Feedback	13
Early Literacy Coaches Online Community	<10
Early Literacy Resources	579

Course Name	Enroll Count
Educator Evaluation in MI: Evidence of Reflective Practice	652
Educator Evaluation in MI: Measurement of Student Growth	690
Educator Evaluation in MI: Preparing for Formative Review	481
Educator Evaluation in MI: Preparing for Summative Evaluation	468
Educator Evaluation in MI: Unpacking the Framework	428
Educator Evaluation: Self-Assessment and Goal Setting	616
EduProtocols Book Study	<10
Effective College Counseling Meetings with Juniors	44
Effective Feedback in a Virtual Setting	478
Effective Relationships with College Admissions Officers	41
Emergency Action Plans for Office Employees	<10
Emergency Response	<10
Empowering Students With Disabilities	46
Enhancing Language Development in Childhood	28
Equity in Online Learning for Multilingual Students	11
Essential Instructional Practices in Early Literacy: K-3 Essential 1	2,126
Essential Instructional Practices in Early Literacy: K-3 Essential 10	1,082
Essential Instructional Practices in Early Literacy: K-3 Essential 2	1,515
Essential Instructional Practices in Early Literacy: K-3 Essential 3	1,811
Essential Instructional Practices in Early Literacy: K-3 Essential 4	1,353
Essential Instructional Practices in Early Literacy: K-3 Essential 5	1,489
Essential Instructional Practices in Early Literacy: K-3 Essential 6	1,311
Essential Instructional Practices in Early Literacy: K-3 Essential 7	1,128
Essential Instructional Practices in Early Literacy: K-3 Essential 8	887
Essential Instructional Practices in Early Literacy: K-3 Essential 9	1,061
Essential Instructional Practices in Early Literacy: Pre-K Essential 1	1,388
Essential Instructional Practices in Early Literacy: Pre-K Essential 10	641
Essential Instructional Practices in Early Literacy: Pre-K Essential 2	711
Essential Instructional Practices in Early Literacy: Pre-K Essential 3	667
Essential Instructional Practices in Early Literacy: Pre-K Essential 4	587
Essential Instructional Practices in Early Literacy: Pre-K Essential 5	631
Essential Instructional Practices in Early Literacy: Pre-K Essential 6	550
Essential Instructional Practices in Early Literacy: Pre-K Essential 7	491
Essential Instructional Practices in Early Literacy: Pre-K Essential 8	456
Essential Instructional Practices in Early Literacy: Pre-K Essential 9	477
Essential Instructional Practices in Early Literacy: School-wide and Center-wide Practices	694
Exploring and Understanding Learner Agency	40
Facilitating Michigan Virtual Courses in District Programs	<10
FERPA - Family Educational Rights and Privacy Act	514

Course Name	Enroll Count
FERPA – Family Educational Rights and Privacy Act	606
Fire Safety	21
Flu Symptoms and Prevention Strategies	71
Food Safety	<10
Formative Assessment 101	<10
Fostering Student Agency Through Positive Relationships	<10
Get Assertive!	26
Get Grants!	<10
GLPS: Tech Use Strategies for Supporting Distance Learning	20
Grammar Refresher	66
Guided Reading: Strategies for the Differentiated Classroom	33
Hazard Communication	22
Hazardous Waste Awareness (RCRA)	30
HIPAA Compliance Training	730
How can PBL Help Elementary Students “Figure Out” Science?	16
How can PBL Help Secondary Students “Figure Out” Science?	<10
Human Anatomy and Physiology	10
Human Anatomy and Physiology II	<10
ILC: Implementing Effective Instruction Non-Facilitated	23
Implementing Professional Learning Communities	<10
Individual Excellence	13
Inquiry Based Learning in Secondary Mathematics Education	<10
Instructional Practices with Technology 101	42
Integrating Technology in the Classroom	33
Interpersonal Communication	20
Intro to CEL's 5D/5D+ Teacher Evaluation System	765
Intro to Computer Science for High School Educators	58
Intro to Computer Science for Middle School Educators	266
Intro to Computer Science Standards for K-5 Educators	185
Intro to Online Course Facilitation, 6-12	12
Intro to Online Course Facilitation: Practical Knowledge	821
Introduction to Blended Learning for School Leaders	466
Introduction to Microsoft Excel 2013	17
Introduction to Microsoft Word 2013	12
Introduction to Phenomenal Science	522
Introduction to Phenomenal Science, Grade 1	135
Introduction to Phenomenal Science, Grade 2	104
Introduction to Phenomenal Science, Grade 3	97
Introduction to Phenomenal Science, Grade 4	102

Course Name	Enroll Count
Introduction to Phenomenal Science, Grade 5	108
Introduction to Phenomenal Science, Grade K	136
ISD Led Monitoring for SPP APR Indicators B-4, B-9, and B-10	90
Keys to Effective Communication	10
Laboratory Safety - Biological Hazards	<10
Leadership	16
MAC: Assessment Systems That Support 21st Century Learners	<10
MAC: Collaborative Inquiry	<10
MAC: Developing a High Quality Balanced Assessment System	12
MAC: Developing Appropriate Assessments	<10
MAC: Formative Feedback Microcredential	<10
MAC: Making Meaning from Student Assessments	47
MAC: Selecting Appropriate Assessments	<10
MAC: Understanding the Formative Assessment Process	85
MAC: Understanding the Technical Concepts Used in Student Assessment	<10
MAC: Using Assessment Data Well	14
MASA Communications: Being an Effective Communicator	<10
MASA Communications: Communicating in a Crisis	<10
MASA Communications: Communications Law	<10
MASA Communications: Crisis Communications Plan Micro-credential	<10
MASA Communications: Developing a Communications Plan Micro-Credential	<10
MASA Communications: Handling the News and Social Media	<10
MASA District Leadership Teams: Effective Board Meetings	<10
MASA District Leadership Teams: Effective Relationships	<10
MASA District Leadership Teams: Roles and Responsibilities	<10
MASA District Leadership: Board Meetings Micro-Credential	<10
MASA: Communications Micro-Credential	<10
MASA: HR Best Practices for Leadership: District Framework	<10
MASA: HR Best Practices Micro-Credential: District Framework	<10
Mastering Public Speaking	14
MDE Assessment Security	15,152
MDE Facilitating Future Proud Michigan Educator: Explore	152
MDE Program Evaluation Tool	<10
MDE: Introduction to Data Use & Action Process	506
MEMSPA: Braiding MTSS & SEL	<10
MEMSPA: Comprehensive Needs Assessment	<10
MEMSPA: Comprehensive Staff Well-Being	<10
MEMSPA: Embedding SEL Schoolwide	<10
MEMSPA: Leadership & Literacy Part 1 - Action Plan	<10

Course Name	Enroll Count
MEMSPA: Leadership & Literacy Part 2 - Resources and Alignment	<10
MEMSPA: Leadership & Literacy Part 3 - Reflection	<10
MEMSPA: Leading Student Engagement	<10
MEMSPA: Module 1 - Supporting Improvement with Systems	<10
MEMSPA: School Vision for Learning	<10
MEMSPA: SEL & Family Engagement	<10
MEMSPA: SEL & Whole Child	<10
MEMSPA: Understanding Your Title I Part A Program	<10
MI Excel Coaching: Being A Math Coach	17
MI Excel Coaching: Being A Reading Coach	16
MI Excel Coaching: Being A Science Coach	<10
MI Excel Coaching: Being A Social Studies Coach	10
MI Excel Coaching: Being A Writing Coach	11
MI Excel Coaching: Module 1 - Coaching Basics	17
MI Excel Coaching: Module 2 - Using Data to Inform Instruction	<10
MI Excel Coaching: Module 3 - Coaching Instructional Planning & Practice	<10
MI Excel Coaching: Module 4 - Multi-Tiered System of Supports	11
MI-Access Training: Participation and Scoring Administration	546
Michigan Continuous School Improvement (MI-CSI)	<10
Michigan Virtual Instructor Onboarding External	<10
Michigan Virtual Online Instructor Training	<10
Microsoft PowerPoint 2013 in the Classroom	<10
Music Made Easy	16
MyPD - 10 SCECHs	21
MyPD - 6 SCECHs	<10
Occupational Safety and Health Programs	<10
Office Safety	61
Online Lessons with Littles: An Overview	1,518
Online Lessons with Littles: Engagement	262
Online Lessons with Littles: Planning	591
Online Mentor Community	10
Online National Standards 1: Getting Started	342
Online National Standards 2: Course Content & Design	384
Online National Standards 3: Assessment	230
Online National Standards 4: Meeting Needs	414
Online Teacher's Guide: Announcements	251
Online Teacher's Guide: Discussions	183
Online Teacher's Guide: Engagement	323
Part 1: ISD Led Monitoring for SPP APR Indicators B-4, B-9, and B-10	<10

Course Name	Enroll Count
Personal Finance	17
Personal Protective Equipment	20
Podcast PD: Google Forms, Failure-Free Failing and CBE	22
Podcast PD: Growing Student Agency and Implementing Google Classroom	21
Podcast PD: Screencasting, the Future of Education	22
PTL: Application	272
PTL: Module 1	187
PTL: Module 2	157
PTL: Module 3	135
PTL: Module 4	67
PTL: Module 5	149
PTL: Module 6	144
PTL: Module 7	161
PTL: Module 8	179
PTL: Orientation	223
Ready, Set, Read!	12
Response to Intervention: Reading Strategies That Work	31
Run, Hide, Fight	456
Seclusion and Restraint	1,628
Sexual Harassment and Discrimination for Employees	1,174
SIF and DIF 2.0 Overview Course	<10
So You Want to be an Instructional Designer?	73
Social-Emotional Learning: Adult SEL and Self-Care	464
Social-Emotional Learning: Assessment Mechanisms	104
Social-Emotional Learning: Creating a Professional Culture Based on SEL	2,033
Social-Emotional Learning: Embedding SEL Schoolwide	1,449
Social-Emotional Learning: Equity Elaborations	100
Social-Emotional Learning: Integrating SEL Into Culturally Responsive Classrooms	1,985
Social-Emotional Learning: Integrating SEL within MTSS	79
Social-Emotional Learning: Introduction to SEL	7,540
Social-Emotional Learning: Trauma-Informed Support	2,099
Solving Classroom Discipline Problems	74
Solving Classroom Discipline Problems II	22
Spanish in the Classroom	23
Speed Spanish	31
Speed Spanish II	12
Speed Spanish III	<10
STEM.org Online Certification	30

Course Name	Enroll Count
Surveys of Enacted Curriculum: Promoting a Culture of Growth and Support (Facilitator Training)	<10
Survival Kit for New Teachers	33
SWMiSTEM: A New Vision for Science Education	50
Take Care of Yourself: A course in wellbeing and self-care	1,373
Teacher+ Student Engagement & Ownership	<10
Teaching Adult Learners	19
Teaching High School Students	<10
Teaching Students With ADHD	51
Teaching Students With Autism: Strategies for Success	22
The Creative Classroom	31
Title IX/Sexual Misconduct at Educational Facilities	767
Transitioning to Remote Teaching 1: Getting Started	873
Transitioning to Remote Teaching 2: Communication Online	707
Transitioning to Remote Teaching 3: Digital Content	689
Transitioning to Remote Teaching 4: Digital Assessment	619
Transitioning to Remote Teaching 5: Adapting to Meet Needs	759
Transitioning to Remote Teaching 6: SEL Supports	759
Transitioning to Remote Teaching: Advanced Placement Edition	304
Understanding Adolescents	36
Understanding the Modern Military	336
Violence in the Workplace	89
Whole Child & Continuous Improvement: A Deeper Understanding (MI Only)	719
Whole Child & Continuous Improvement: A Deeper Understanding (Non-Michigan)	<10
Whole School Ongoing PD	10
Writing Effective Counselor Letters for College	51

Figure 7. 2020-21 Districts Served by Michigan Virtual with Professional Learning

ISDs

Allegan Area ESA	Gratiot-Isabella RESD	Monroe ISD
Alpena-Mont.-Alcona ESD	Heritage SW ISD	Montcalm Area ISD
Barry ISD	Hillsdale ISD	Muskegon Area ISD
Bay-Arenac ISD	Huron ISD	Newaygo County RESA
Berrien RESA	Ingham ISD	Northwest Ed. Services
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 RESD	Lapeer ISD	St. Clair County RESA
Clinton County RESA	Lenawee ISD	St. Joseph County ISD
Copper Country ISD	Livingston ESA	Tuscola ISD
Delta-Schoolcraft ISD	Macomb ISD	Van Buren ISD
Dickinson-Iron ISD	Manistee ISD	Washtenaw ISD
Eastern Upper Peninsula ISD	Marquette-Alger RESA	Wayne RESA
Eaton RESA	Mecosta-Osceola ISD	West Shore ESD
Genesee ISD	Menominee ISD	Wexford-Missaukee ISD
Gogebic-Ontonagon ISD	Midland County ESA	

LEA Districts

Adams Township School District	Atherton Community Schools	Bendle Public Schools
Addison Community Schools	Atlanta Community Schools	Bentley Community S.D.
Adrian Public Schools	Au Gres-Sims School District	Benton Harbor Area Schools
Airport Community Schools	Avondale School District	Benzie County Central Schools
Akron-Fairgrove Schools	Bad Axe Public Schools	Berkley School District
Alanson Public Schools	Baldwin Community Schools	Berrien Springs Public Schools
Alba Public Schools	Bangor Public S. (Van Buren)	Bessemer Area School District
Alcona Community Schools	Bangor Township Schools	Big Bay De Noc School District
Algonac Community S.D.	Baraga Area Schools	Big Jackson School District
Allegan Public Schools	Bark River-Harris S.D.	Big Rapids Public Schools
Allen Park Public Schools	Bath Community Schools	Birch Run Area Schools
Allendale Public Schools	Battle Creek Public Schools	Birmingham Public Schools
Alma Public Schools	Bay City School District	Blissfield Community Schools
Almont Community Schools	Beal City Public Schools	Bloomfield Hills Schools
Alpena Public Schools	Bear Lake Schools	Bloomington Public S.D.
Anchor Bay School District	Beaver Island Community School	Boyer City Public Schools
Ann Arbor Public Schools	Beaverton Schools	Boyer Falls Public S.D.
Arenac Eastern School District	Bedford Public Schools	Brandon S.D. (Oakland & Lapeer)
Armada Area Schools	Beecher Community S.D.	Brandywine Community Schools
Arvon Township School District	Belding Area School District	Breckenridge Community S.
Ashley Community Schools	Bellaire Public Schools	Breitung Township S.D.
Athens Area Schools	Bellevue Community Schools	

Bridgeport-Spaulding Comm. S.D.	Clintondale Community Schools	Essexville-Hampton P.S.
Bridgman Public Schools	Clio Area School District	Evart Public Schools
Brighton Area Schools	Coldwater Community Schools	Ewen-Trout Creek Cons. S.D.
Brimley Area Schools	Coleman Community Schools	Excelsior Township S/D #1
Britton Deerfield Schools	Colfax Township S/D #1F	Fairview Area School District
Bronson Community S.D.	Coloma Community Schools	Farmington Public S.D.
Brown City Community Schools	Colon Community School District	Farwell Area Schools
Buchanan Community Schools	Columbia School District	Fennville Public Schools
Buckley Community Schools	Comstock Park Public Schools	Fenton Area Public Schools
Bullock Creek School District	Comstock Public Schools	Ferndale Public Schools
Burr Oak Community S.D.	Concord Community Schools	Fitzgerald Public Schools
Burt Township School District	Constantine Public S.D.	Flat Rock Community Schools
Byron Area Schools	Coopersville Area Public S.D.	Flint, S.D. of the City of
Byron Center Public Schools	Corunna Public Schools	Flushing Community Schools
Cadillac Area Public Schools	Covert Public Schools	Forest Area Community Schools
Caledonia Community Schools	Crawford AuSable Schools	Forest Hills Public Schools
Camden-Frontier School	Crestwood School District	Forest Park School District
Capac Community Schools	Croswell-Lexington Com. S.	Fowler Public Schools
Carman-Ainsworth Community S.	Dansville Schools	Fowlerville Community Schools
Carney-Nadeau Public Schools	Davison Community Schools	Frankenmuth School District
Caro Community Schools	Dearborn City School District	Frankfort-Elberta Area Schools
Carrollton Public Schools	Dearborn Heights S.D. #7	Fraser Public Schools
Carson City-Crystal Area S.	Decatur Public Schools	Freeland Community S.D.
Carsonville-Port Sanilac S.D.	Deckerville Community S.D.	Fremont Public School District
Caseville Public Schools	Delton Kellogg Schools	Fruitport Community Schools
Cass City Public Schools	DeTour Area Schools	Fulton Schools
Cassopolis Public Schools	Detroit City School District	Galesburg-Augusta Com. S.
Cedar Springs Public Schools	Detroit Public Schools Com. D.	Garden City Public Schools
Center Line Public Schools	DeWitt Public Schools	Gaylord Community Schools
Central Lake Public Schools	Dexter Community S.D.	Genesee School District
Central Montcalm Public S.	Dowagiac Union School District	Gibraltar School District
Centreville Public Schools	Dryden Community Schools	Gladstone Area Schools
Charlevoix Public Schools	Dundee Community Schools	Gladwin Community Schools
Charlotte Public Schools	Durand Area Schools	Glen Lake Community Schools
Chassell Township S.D.	East China School District	Glenn Public School District
Cheboygan Area Schools	East Grand Rapids P. S.	Gobles Public School District
Chelsea School District	East Jackson Community S.	Godfrey-Lee Public Schools
Chesaning Union Schools	East Jordan Public Schools	Godwin Heights Public Schools
Chippewa Hills School District	East Lansing School District	Goodrich Area Schools
Chippewa Valley Schools	Eastpointe Community Schools	Grand Blanc Community Schools
Church School District	Eaton Rapids Public Schools	Grand Haven Area Public Schools
Clare Public Schools	Eau Claire Public Schools	Grand Ledge Public Schools
Clarenceville School District	Ecorse Public Schools	Grand Rapids Public Schools
Clarkston Community S.D.	Edwardsburg Public Schools	Grandville Public Schools
Clawson Public Schools	Elk Rapids Schools	Grant Public School District
Climax-Scotts Com. Schools	Elkton-Pigeon-Bay Port Laker S.	Grass Lake Community Schools
Clinton Community Schools	Ellsworth Community School	Greenville Public Schools
	Escanaba Area Public Schools	

Grosse Ile Township Schools
 Grosse Pointe Public Schools
 Gull Lake Community Schools
 Gwinn Area Community Schools
 Hagar Township S/D #6
 Hale Area Schools
 Hamilton Community Schools
 Hamtramck, S.D. of the City of
 Hancock Public Schools
 Hanover-Horton School District
 Harbor Beach Community S.
 Harbor Springs School District
 Harper Creek Community S.
 Harper Woods S.D.
 Harrison Community Schools
 Hart Public School District
 Hartford Public Schools
 Hartland Consolidated Schools
 Haslett Public Schools
 Hastings Area School District
 Hazel Park S.D.
 Hemlock Public School District
 Hesperia Community Schools
 Highland Park City Schools
 Hillman Community Schools
 Hillsdale Community Schools
 Holland City School District
 Holly Area School District
 Holt Public Schools
 Holton Public Schools
 Homer Community S.D.
 Hopkins Public Schools
 Houghton Lake Community S.
 Houghton-Portage Township S.D.
 Howell Public Schools
 Hudson Area Schools
 Hudsonville Public S.D.
 Huron School District
 Huron Valley Schools
 Ida Public School District
 Imlay City Community Schools
 Inland Lakes Schools
 Ionia Public Schools
 Iron Mountain Public Schools
 Ironwood A. S. of Gogebic Cnty
 Ishpeming Public S.D. No. 1
 Ithaca Public Schools
 Jackson Public Schools

Jefferson Schools (Monroe)
 Jenison Public Schools
 Johannesburg-Lewiston Area S.
 Jonesville Community Schools
 Kalamazoo Public Schools
 Kaleva Norman Dickson S.D.
 Kalkaska Public Schools
 Kearsley Community S.D.
 Kelloggsville Public Schools
 Kenowa Hills Public Schools
 Kent City Community Schools
 Kentwood Public Schools
 Kingsley Area Schools
 Kingston Community S.D.
 Laingsburg Community Schools
 Lake City Area School District
 Lake Fenton Community Schools
 Lake Linden-Hubbell S.D.
 Lake Orion Community Schools
 Lake Shore Public S. (Macomb)
 Lakeshore S.D. (Berrien)
 Lakeview Com. S. (Montcalm)
 Lakeview P.S. (Macomb)
 Lakeview S.D. (Calhoun)
 Lakeville Community S.D.
 Lakewood Public Schools
 Lamphere Public Schools
 L'Anse Area Schools
 L'Anse Creuse Public Schools
 Lansing Public School District
 Lapeer Community Schools
 Lawrence Public Schools
 Lawton Community S.D.
 Leland Public School District
 Les Cheneaux Community S.
 Leslie Public Schools
 Lincoln Consolidated S.D.
 Lincoln Park S.D.
 Linden Community Schools
 Litchfield Community Schools
 Livonia Public Schools S.D.
 Lowell Area Schools
 Ludington Area School District
 Mackinac Island Public Schools
 Mackinaw City Public Schools
 Madison District S.D.
 Madison S.D. (Lenawee)
 Mancelona Public Schools

Manchester Community Schools
 Manistee Area Public Schools
 Manistique Area Schools
 Manton Consolidated Schools
 Maple Valley Schools
 Mar Lee School District
 Marcellus Community Schools
 Marion Public Schools
 Marlette Community Schools
 Marquette Area Public Schools
 Marshall Public Schools
 Martin Public Schools
 Marysville Public Schools
 Mason Consolidated S. (Monroe)
 Mason County Eastern Schools
 Mason Public Schools (Ingham)
 Mattawan Consolidated School
 Mayville Community S.D.
 McBain Rural Agricultural S.
 Melvindale-North Allen Park S.
 Memphis Community Schools
 Mendon Community S.D.
 Menominee Area Public Schools
 Meridian Public Schools
 Merrill Community Schools
 Mesick Consolidated Schools
 Michigan Center School District
 Mid Peninsula School District
 Midland Public Schools
 Milan Area Schools
 Millington Community Schools
 Mio-AuSable Schools
 Mona Shores Public S.D.
 Monroe Public Schools
 Montabella Community Schools
 Montague Area Public Schools
 Montrose Community Schools
 Moran Township School District
 Morenci Area Schools
 Morley Stanwood Community S.
 Morrice Area Schools
 Mount Clemens Community S.D.
 Mt. Morris Consolidated Schools
 Mt. Pleasant City S.D.
 Munising Public Schools
 Muskegon Heights S.D.
 Muskegon, P.S.
 Napoleon Community Schools

Negaunee Public Schools
 New Buffalo Area Schools
 New Haven Community Schools
 New Lothrop Area P.S.
 Newaygo Public School District
 NICE Community School District
 Niles Community Schools
 North Adams-Jerome P.S.
 North Branch Area Schools
 North Central Area Schools
 North Dickinson County Schools
 North Huron School District
 North Muskegon Public Schools
 Northport Public S.D.
 Northview Public Schools
 Northville Public Schools
 Northwest Community Schools
 Norway-Vulcan Area Schools
 Nottawa Community School
 Novi Community School District
 Oak Park, S.D. of the City of
 Oakridge Public Schools
 Okemos Public Schools
 Olivet Community Schools
 Onaway Area Community S.D.
 Onekama Consolidated Schools
 Onsted Community Schools
 Ontonagon Area School District
 Orchard View Schools
 Oscoda Area Schools
 Otsego Public Schools
 Ovid-Elsie Area Schools
 Owendale-Gagetown Area S.D.
 Owosso Public Schools
 Oxford Community Schools
 Parchment School District
 Paw Paw Public School District
 Peck Community School District
 Pellston Public Schools
 Pennfield Schools
 Pentwater Public S.D.
 Perry Public Schools
 Pewamo-Westphalia Com. S.
 Pickford Public Schools
 Pinckney Community Schools
 Pinconning Area Schools
 Pine River Area Schools
 Pittsford Area Schools

Plainwell Community Schools
 Plymouth-Canton Com. S.
 Pontiac City School District
 Port Huron Area School District
 Portage Public Schools
 Portland Public Schools
 Posen Consolidated S.D. No. 9
 Potterville Public Schools
 Powell Township Schools
 Public Schools of Calumet,
 Laurium & Keweenaw
 Public Schools of Petoskey
 Quincy Community Schools
 Rapid River Public Schools
 Ravenna Public Schools
 Reading Community Schools
 Redford Union S., D. No. 1
 Reed City Area Public Schools
 Reese Public Schools
 Reeths-Puffer Schools
 Republic-Michigamme Schools
 Richmond Community Schools
 River Rouge, S.D.
 River Valley School District
 Riverview Community S.D.
 Rochester Community S.D.
 Rockford Public Schools
 Rogers City Area Schools
 Romeo Community Schools
 Romulus Community Schools
 Roscommon Area Public Schools
 Roseville Community Schools
 Royal Oak Schools
 Rudyard Area Schools
 Saginaw Township Com. S.
 Saginaw S.D.
 Saline Area Schools
 Sand Creek Community Schools
 Sandusky Community S.D.
 Saranac Community Schools
 Saugatuck Public Schools
 Sault Ste. Marie Area Schools
 Schoolcraft Community Schools
 Shelby Public Schools
 Shepherd Public Schools
 Sigel Township S/D #3F
 Sigel Township S/D #4F
 Sodus Township S/D #5

South Haven Public Schools
 South Lake Schools
 South Lyon Community Schools
 South Redford School District
 Southfield Public S.D.
 Southgate Community S.D.
 Sparta Area Schools
 Spring Lake Public Schools
 Springport Public Schools
 St. Charles Community Schools
 St. Ignace Area Schools
 St. Johns Public Schools
 St. Joseph Public Schools
 St. Louis Public Schools
 Standish-Sterling Com. S.
 Stanton Township Public
 Schools
 Stephenson Area Public Schools
 Stockbridge Community Schools
 Sturgis Public Schools
 Summerfield Schools
 Superior Central S.D.
 Suttons Bay Public Schools
 Swan Valley School District
 Swartz Creek Community S.
 Tahquamenon Area Schools
 Tawas Area Schools
 Taylor School District
 Tecumseh Public Schools
 Tekonsha Community Schools
 Thornapple Kellogg S.D.
 Three Rivers Community Schools
 Traverse City Area P.S.
 Trenton Public Schools
 Tri County Area Schools
 Troy School District
 Ubly Community Schools
 Union City Community Schools
 Unionville-Sebewaing Area S.D.
 Utica Community Schools
 Van Buren Public Schools
 Van Dyke Public Schools
 Vanderbilt Area Schools
 Vandercook Lake Public Schools
 Vassar Public Schools
 Verona Township S/D #1F
 Vestaburg Community Schools
 Vicksburg Community Schools

Wakefield-Marenisco S.D.
 Waldron Area Schools
 Walkerville Public Schools
 Walled Lake Cons. 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 Community S.D.
 Webberville Community Schools

West Bloomfield School District
 West Branch-Rose City Area S.
 West Iron County Public Schools
 West Ottawa Public S.D.
 Western School District
 Westwood Community S.D.
 Westwood Heights Schools
 White Cloud Public Schools
 White Pigeon Community S.
 Whitefish Township Schools
 Whiteford Agrcultural. S.D. of
 (Lenawee & Monroe)
 Whitehall District Schools

Whitmore Lake Public S.D.
 Whittemore-Prescott Area S.
 Williamston Community Schools
 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 District

Academic and Career Ed. Acad.
 Academy for Business & Tech.
 Academic & Career Ed. Acad.
 Academy for Bus. & Technology
 Academy of Warren
 ACE Academy (SDA)
 Achieve Charter Academy
 Advanced Technology Academy
 Alt. Ed. Academy of Iosco County
 American International Academy
 American Montessori Academy
 Ann Arbor Learning Community
 Arbor Academy
 Arbor Preparatory High School
 Arts Academy in the Woods
 Arts & Tech. Academy of Pontiac
 Barack Obama Leadership Acad.
 Battle Creek Area Learning Cntr
 Battle Creek Montessori Acad.
 Bay City Academy
 Bay-Arenac Community H.S.
 Benton Harbor Charter S. Acad.
 Black River Public School
 Blended Learning Acad. Credit
 Recovery H.S.
 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 High School
 Capstone Acad. Chrt S. (SDA)
 Casman Alternative Academy
 Central Academy
 Cesar Chavez Academy
 Chandler Park Academy
 Chandler Woods Charter Acad.
 Charlevoix Montessori Academy
 for the Arts
 Charlton Heston Academy
 Charyl Stockwell Academy
 Chatfield School
 Clara B. Ford Academy (SDA)
 Cole Academy
 Commonwealth Community Dev.
 Academy
 Concord Academy - Boyne
 Concord Academy - Petoskey
 Conner Creek Academy East
 Cornerstone Health & Tech. S.
 Cornerstone Jefferson-Douglass
 Academy
 Countryside Academy
 Covenant House Acad. Detroit
 Covenant House Academy GR
 Creative Montessori Academy
 Creative Technologies Academy
 Crescent Academy
 Cross Creek Charter Academy
 Crossroads Charter Academy
 Da Vinci Institute

David Ellis Academy
 David Ellis Academy West
 DeTour Arts & Technology Acad.
 Detroit Academy of Arts & Sci.
 Detroit Achievement Academy
 Detroit Collegiate High School
 Detroit Community Schools
 Detroit Edison P.S. Academy
 Detroit Enterprise Academy
 Detroit Innovation Academy
 Detroit Leadership Academy
 Detroit Merit Charter Academy
 Detroit Premier Academy
 Detroit Prep
 Detroit Public Safety Academy
 Detroit Service Learning Acad.
 Distinctive College Prep.
 Dove Academy of Detroit
 Dr. Joseph F. Pollack Academic
 Center of Excellence
 Eagle Crest Charter Academy
 Eagle's Nest Academy
 East Arbor Charter Academy
 East Shore Leadership Academy
 Eaton Academy
 Endeavor Charter Academy
 Escuela Avancemos
 Evergreen Academy
 Excel Charter Academy
 Faxon Academy
 Flagship Charter Academy
 Flat River Academy

FlexTech High School	Jalen Rose Leadership Academy	Nah Tah Wahsh PSA
Flint Cultural Center Academy	Joseph K. Lumsden Bahweting	New Bedford Academy
Forest Academy	Anishnabe Academy	New Branches Charter Academy
Fortis Academy	Joy Preparatory Academy	New Dawn Academy of Warren
Four Corners Montessori Acad.	Kalamazoo Covenant Academy	New Paradigm College Prep
Francis Reh PSA	Kensington Woods Schools	New Paradigm Glazer-Loving A.
Francis Street Primary School	Keystone Academy	New School High
Frontier International Academy	Kingsbury Country Day School	NexTech High School
Gateway To Success Academy	Knapp Charter Academy	Noor International Academy
GEE White Academy	Lake Superior Academy	North Saginaw Charter Academy
Genesee STEM Academy	Landmark Academy	North Star Montessori Academy
George Crockett Academy	Lansing Charter Academy	Oakland Academy
George Washington Carver Acad.	Leelanau Montessori PSA	Oakland County Academy of
Global Heights Academy	Legacy Charter Academy	Media & Technology
Global Preparatory Academy	Life Skills Center of Pontiac	Oakland FlexTech High School
Global Tech Academy	LifeTech Academy	Oakland International Academy
Grand Blanc Academy	Lighthouse Academy	Oakside Scholars Charter Acad.
Grand Rapids Child Dis. Center	Lighthouse Connections Acad.	Ojibwe Charter School
Grand River Academy	Linden Charter Academy	Old Mission Peninsula School
Grand River Preparatory H. S.	Livingston Classical Academy	Old Redford Academy
Grand Traverse Academy	MacDowell Preparatory Academy	Pansophia Academy
Great Lakes Academy	Macomb Academy	Paragon Charter Academy
Great Lakes Learning Academy	Macomb Montessori Academy	Paramount Charter Academy
Great Oaks Academy	Madison Academy	Pathways Academy
Greater Heights Academy	Madison-Carver Academy	Pembroke Academy
Hamilton Academy	Marshall Academy	Plymouth Educational Center
Hamtramck Academy	Martin Luther King, Jr. Education	Charter School
Hanley International Academy	Center Academy	Plymouth Scholars Charter Acad.
Henry Ford Academy	Marvin L. Winans Academy of	Pontiac Academy for Excellence
Highland Park PSA System	Performing Arts	Presque Isle Academy
Highpoint Virtual Academy of MI	Merritt Academy	Prevail Academy
Hillsdale Preparatory School	Metro Charter Academy	Quest Charter Academy
Holly Academy	Michigan Connections Academy	Reach Charter Academy
Honey Creek Community School	Michigan Ed. Choice Center	Regent Park Scholars Chrtr Acad.
Hope Academy	Michigan Great Lakes Virt. Acad.	Relevant Academy of Eaton Cnty
Hope Academy of West Michigan	Michigan International Prep S.	Renaissance Public School Acad.
Hope of Detroit Academy	Michigan Math. & Sci. Acad.	Richfield Public School Academy
Huron Academy	Michigan Online School	Ridge Park Charter Academy
ICademy Global	Michigan Prep. Virtual School	River City Scholars Charter Acad.
Inkster Preparatory Academy	Michigan Virtual Charter Acad.	River Heights Academy
Innocademy	Mid-Michigan Leadership Acad.	Riverside Academy
Innocademy Allegan Campus	Mildred C. Wells Prep. Academy	Rutherford Winans Academy
Insight School of Michigan	Momentum Academy	Saginaw Covenant Academy
International Academy of Flint	Multicultural Academy	Saginaw Learn to Earn Academy
International Acad. of Saginaw	Muskegon Covenant Academy	Saginaw Preparatory Academy
Island City Academy	Muskegon Heights PSA System	South Arbor Charter Academy
Ivywood Classical Academy	Muskegon Montessori Acad. for	Sth. Canton Scholars Chtr Acad.
Jackson Prep. & Early College	Environmental Change	South Pointe Scholars Chtr Acad.

St. Clair County Intervention Aca.
 Star International Academy
 State Street Academy
 Success Virtual Learning Centers
 of Michigan
 Summit Academy North
 Taylor Exemplar Academy
 Taylor Preparatory High School
 The Dearborn Academy
 The Greenspire School
 The New Standard Academy
 Three Lakes Academy
 Three Oaks Public School Acad.
 Timberland Academy
 Tipton Academy
 Trillium Academy
 Triumph Academy
 Universal Academy
 Universal Learning Academy
 University Prep. Academy (PSAD)

University Prep. Art & Design
 University Prep. Science and
 Math (PSAD)
 Uplift Michigan Academy
 Vanderbilt Charter Academy
 Vanguard Charter Academy
 Virtual Learning Academy of St.
 Clair County
 Vista Charter Academy
 Vista Meadows Academy
 Voyageur Academy
 Walden Green Montessori
 Walker Charter Academy
 Walton Charter Academy
 Warrendale Charter Academy
 Washington-Parks Academy
 Washtenaw Technical Mid.Coll.
 Waterford Montessori Acad.
 W-A-Y Academy
 WAY Michigan

Wellspring Preparatory H.S.
 West MI Academy of Arts and
 Academics
 West MI Academy of
 Environmental Science
 West Michigan Aviation
 Academy
 West Village Academy
 Westfield Charter Academy
 Weston Preparatory Academy
 White Pine Academy
 Will Carleton Charter S. Acad.
 William C. Abney Academy
 Windemere Park Charter Aca.
 Windover High School
 Woodland Park Academy
 Woodland School
 WSC Academy
 Youth Advancement Academy

Nonpublic Schools

Academy Of Sacred Heart
 Academy of International Studies
 Academy of Sacred Heart (BH)
 Acton Academy Ann Arbor (A2)
 Ada Christian School
 Adams Christian School
 Aim High School
 Algoma Christian School
 Al-Ikhlas Training Academy
 All Saints Acad. Elementary (GR)
 All Saints Catholic S. (Canton)
 All Saints Central S. (Bay City)
 All Saints Elementary (Bay City)
 Allendale Christian School
 AnchorPoint Christian School
 Ann Arbor Academy
 Ann Arbor Christian School
 Ann Arbor Hills Child Dev. Ctr.
 Assumption of the Blessed Virgin
 Mary Catholic School
 Auburn Area Catholic School
 Auburn Hills Christian School
 Austin Catholic High School
 Beth Jacob School
 Bethel Community Education

Bethel Lutheran School
 Bethlehem Lutheran School
 Beverly Hills Academy
 Bishop Baraga Catholic School
 Bishop Foley Catholic H. S.
 Bloomfield Christian School
 Borculo Christian School
 Bowen Creek Amish School
 Brightmont Academy
 Brookfield Academy
 Brother Rice High School
 Byron Center Christian School
 Cabrini High School
 Calvary Baptist Academy
 Calvary Christian Academy
 Calvary Christian School
 Calvin Christian M.S. & H.S.
 Cardinal Mooney Catholic School
 Catholic Central H.S. (GR)
 Cedar Crest Academy
 Charlotte Mason Com. School
 Christ the King Lutheran S. (SG)
 Christ the King Lutheran
 (Sebewaing)

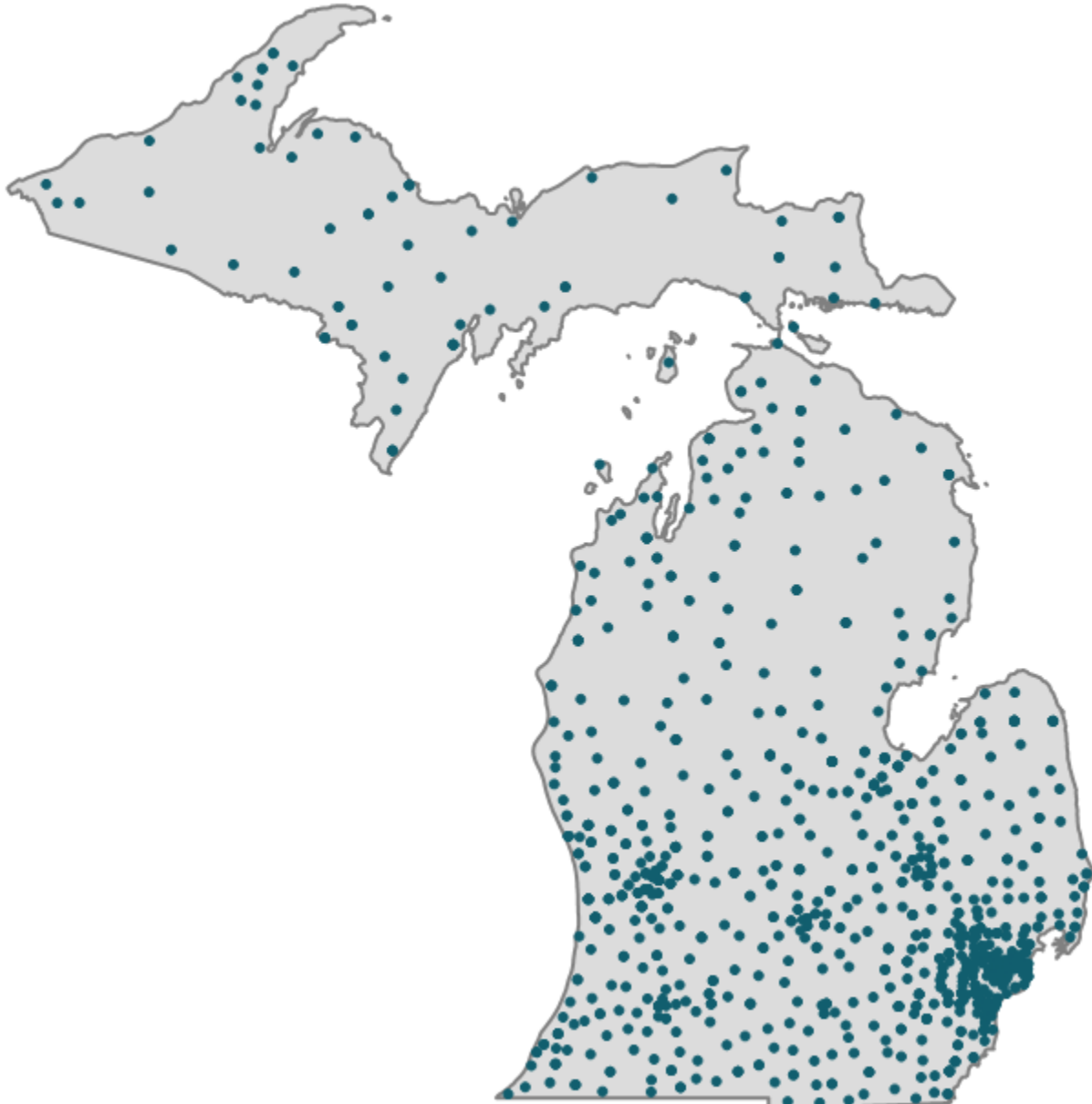
Christ the King Lutheran
 (Unionville)
 Christian Montessori School
 Copper Country Christian School
 Cornerstone Schools Association
 Corpus Christi Catholic School
 Covenant Christian High School
 Cranbrook School
 Crescent Academy International
 Cross Lutheran School
 Dearborn Heights Montessori
 Center
 DeLaSalle Collegiate High School
 Detroit Catholic Central H.S.
 Detroit Christian S. of Excellence
 Detroit Country Day
 Detroit Cristo Rey High School
 Divine Child Elem S.(Dearborn)
 Divine Child H.S. (Dearborn)
 Divine Providence Academy -
 Conklin
 Divine Providence Academy -
 Ravenna
 Dreamy Islamic Academy
 Dutton Christian School

Eagle Creek Academy	Holy Cross Lutheran School	Loyola High School
East Martin Christian School	Holy Family Regional School	Ludington Area Catholic School
Emanuel First Lutheran School	Holy Family School	Lumen Christi Catholic School
Emanuel Redeemer Lutheran S.	(Birmingham)	Lutheran High School NW (RH)
Emerson School	Holy Family School (Escanaba)	Lutheran High School-North
Escanaba SDA Elementary S.	Holy Ghost Lutheran School	Lutheran High School-Westland
Eton Academy	Holy Name School (Birmingham)	Macomb Christian Schools
Everest Academy	Holy Name School (Escanaba)	Manistee Catholic Central S.
Evergreen Lutheran School	Holy Redeemer Elementary S.I	Marian High School
Faith Baptist School	Holy Spirit Central School	Martin Luther High School
Faith Community Christian S.	Holy Spirit School	Meadow Montessori School
Faith Lutheran School	Huda School & Montessori	Mercy High School
Faithway Christian Academy	Huda Upper S. Farmington Hills	Michigan Lutheran High School
Farber Hebrew Day School -	Hudsonville Christian School	Moline Christian School Monroe
Yeshivat Akiva	Huron Valley Catholic School	Catholic ES - St. John Campus
Fellowship Baptist Academy	Huron Valley Lutheran High S.	Monroe Catholic ES - St. Mary
Fr. Gabriel Richard High School	Imlay City Christian School	Campus
Fr. Luke M. Powers H. S. - Flint	Immaculate Conception El.S. - TC	Monroe Catholic ES - St. Michael
Fr. Marquette Catholic School	Immaculate Conception S. - IRA	Campus
Fremont Christian School	Immaculate Conception	Montessori Children's Center of
Gabriel Richard Catholic H. S.	Ukrainian School	Allen Park
Genesee Academy	Immaculate Heart of Mary	Montessori Society of Greater
Genesee Christian School	(Lansing)	Grand Rapids
Gesu Elementary School	Immaculate Heart of Mary	Most Holy Trinity School (Detroit)
Good Shepherd Lutheran School	School (Grand Rapids)	Most Holy Trinity School (Fowler)
Grace Christian School	Immanuel - St. James Lutheran S	Mt. Pleasant SDA School
Grand Blanc Montessori	Immanuel Lutheran S. (Alpena)	Muskegon Catholic Central
Grand Haven Christian School	Immanuel Lutheran S. (Bay City)	Muskegon Christian School
Grand Rapids Adventist	Immanuel Lutheran S. (Macomb)	ND Marist Acade. Middle Div.
Academy	Inter City Baptist School	New Era Christian School
Grand Rapids Christian El.S.	Interlochen Arts Academy	New Life Christian Academy
Evergreen Campus	Islamic School of Grand Rapids	New Morning School
Grand Rapids Christian El.S. (GR)	Jenison Christian School	Niles SDA School
Grand Rapids Christian H.S.	John Paul II Catholic School	Northern Michigan Christian S.
Grand Rapids Christian M.S.	Journey Academy - ADA	NorthPointe Christian School
Grandville Christian School	Kalamazoo Christian High	Northville Christian School
Grant Christian School	School	Notre Dame Preparatory School
Greenhills School	Kalamazoo Christian School	Nouvel Catholic Central Elem.
Grosse Pointe Academy	Kazoo School	Nouvel Catholic Central High S.
Guardian Angels School	Laingsburg Christian School	Novi Christian Academy
Guardian Lutheran School	Lake Michigan Academy	Oakdale Academy - Waterford
Hackett Catholic Prep	Lamont Christian School	Oakland Children's Academy
Hadi Educational Institute	Lansing Baptist School	Oakland Christian School
Harbor Light Christian School	Lansing Catholic Central H. S.	One School Global - Bloomfield
Holland Adventist Academy	Lansing Christian School	Hills
Holland Christian High School	Leelanau School	Our Lady of Consolation School
Holland Christian Middle School	Libertas Christian School	Our Lady of Good Counsel S.
Holy Cross Catholic School	Livingston Christian Schools	Our Lady of Lake Huron School

Our Lady of Refuge School	St. Anselm School	St. Lorenz Lutheran School
Our Lady of Sorrows School	St. Anthony of Padua School	St. Martha School
Our Lady of the Lakes School	St. Augustine Cathedral S. (Kzoo)	St. Mary Cathedral S. (Gaylord)
Our Lady of Victory School	St. Augustine Catholic School	St. Mary Catholic Central H.S.
Our Lady Queen of Martyrs S.	Richmond	(Monroe)
Our Lady Star of the Sea School	St. Basil School	St. Mary Catholic S. (Rockford)
Our Savior Lutheran School (Hrtl)	St. Catherine of Siena Academy	St. Mary Catholic School (Sault
Our Savior Lutheran School (Lan)'	St. Charles Borromeo Catholic S.	Saint Marie)
Our Shepherd Lutheran School	St. Charles Catholic School	St. Mary Catholic S. (Spring Lake)
Parkway Christian School	St. Charles School	St. Mary School (Big Rapids)
Peace Lutheran S. (Saginaw)	St. Clare of Montefalco School	St. Mary School (Charlevoix)
Peace Lutheran S. (Shelby Twp)	St. Edith Catholic School	St. Mary School (Lake Leelanau)
Plymouth Christian Academy	St. Edward on the Lake School	St. Mary School (Mt. Clemens)
Potters House High School	St. Elizabeth Catholic School	St. Mary School (Pinckney)
Potters House School	St. Fabian Catholic School	St. Mary School (Royal Oak)
Precious Angels Christian Acad.	St. Frances Cabrini School	St. Mary School (St. Clair)
Providence Christian School	St. Francis de Sales School	St. Mary School (Wayne)
Regina High School	St. Francis High School	St. Mary School (Westphalia)
Resurrection School	St. Francis of Assisi School	St. Mary School(Williamston)
River of Life School	St. Gerard School	St. Mary's of Hannah School
Rochester Hills Christian	St. Germaine Elementary School	St. Mary's Preparatory School
Rockford Christian School	St. Hugo of the Hills School	St. Mary's Visitation School
Roeper City & Country Elem. S.	St. Isaac Jogues Catholic School	St. Matthew Lutheran School
Roeper City & Country Upper	St. Joan of Arc School	(Walled Lake)
Rose Park Christian School	St. John Ev Lutheran School	St. Matthew Lutheran S.
Rudolf Steiner S. of Ann Arbor	St. John Lutheran School	(Westland)
Rudyard Christian School	(Fraser)	St. Michael Lutheran S.
Sacred Heart Academy	St. John Lutheran S. (Rochester)	(Richville)
Sacred Heart School	St. John the Evangelist School	St. Michael Lutheran S. (Wayne)
Sacred Heart School	(Fenton)	St. Michael School (Grand
Saginaw Chippewa Indian Tribe	St. John the Evangelist School	Ledge)
of MI - Mt. Pleasant	(Jackson)	St. Michael School (Livonia)
Saint John Paul II Catholic Aca.	St. John Vianney School	St. Michael School (Remus)
San Juan Diego Academy	St. John Vianney School	St. Michael's Lutheran School
Schoolhouse Montessori Acad.	St. Johns Lutheran Amelith	St. Monica School
Shajara Tayyiba School	St. John's Lutheran School	St. Patrick School (Ada)
Shepherd of the Lakes Luth. S.	St. Joseph Catholic School (Erie)	St. Patrick School (Brighton)
Shrine Catholic Grade School	St. Joseph Catholic School (Lake	St. Patrick School (Carleton)
Shrine Catholic H.S. & Academy	Orion)	St. Patrick School (White Lake)
South Christian High School	St. Joseph Elementary School	St. Patrick's School (Portland)
South Olive Christian School	(Battle Creek)	St. Paul Lutheran School
South Side Christian School	St. Joseph School (Howell)	(Lapeer)
Southfield Christian School	St. Joseph School (Pewamo)	St. Paul Lutheran S. (Livonia)
Spiritus Sanctus Academy	St. Joseph School (St. Johns)	St. Paul Lutheran S. (Millington)
Spiritus Sanctus Academy -	St. Joseph School (Trenton)	St. Paul Lutheran S. (Northville)
SS. Peter & Paul School	St. Joseph School (West Branch)	St. Paul Lutheran S. (Royal Oak)
St. Ann School	St. Lawrence School	St. Paul S. (Grosse Pte. Farms)
St. Anne Catholic Grade School	St. Linus School	St. Paul School (Owosso)

St. Paul The Apostle School (Grand Rapids)	Tawheed Center of Detroit S.	Valley Lutheran High School
St. Paul's Lutheran School (Stevensville)	The Jean & Samuel Frankel Jewish Academy	Waldorf School Assn. of MI
St. Peter Lutheran S. (Eastpoint)	The Pathfinder School, Inc.	Warren Woods Christian School
St. Peter Lutheran S. (Hemlock)	Traverse City Christian School	Washtenaw Christian Academy
St. Peter Lutheran S. (Macomb)	Trinitas Classical Association	Waterford Adventist School
St. Peter's Lutheran School (Richmond)	Trinity Lutheran Monitor	West Catholic High School
St. Philip Catholic Central H. S.	Trinity Lutheran School (Berrien Springs)	West Highland Christian Acad.
St. Pius Catholic School	Trinity Lutheran S. (Clinton Twp)	West Michigan Lutheran H. S.
St. Regis School	Trinity Lutheran School (Conklin)	West Side Christian School
St. Robert Catholic School	Trinity Lutheran S. (Jackson)	Western Michigan Christian H.S.
St. Rose of Lima Catholic School	Trinity Lutheran S. (Manistee)	Westside Christian Academy
St. Stanislaus School	Trinity Lutheran School (Monroe)	WISE Academy
St. Stephen Elementary School	Trinity Lutheran School (Reese)	Wixom Christian School
St. Thecla Catholic School	Trinity Lutheran School (Utica)	Yeshivas Darchei Torah
St. Thomas Aquinas School	Tri-Unity Christian Elem. S.	Zeeland Christian School
St. Thomas the Apostle School	Unity Christian High School	Zion Christian School
St. Valentine School	University of Detroit Jesuit	Zion Lutheran Beaver School
St. William Catholic School	University-Liggett School	Zion Lutheran School (Bay City)
	Upland Hills School	Zion Lutheran S.(Harbor Beach)

Figure 8. 2020-21 Michigan Virtual ISD, LEA, PSA Districts and Nonpublic Schools with Professional Learning Enrollments



Endnotes

¹ To read more about the new strategic plan, please visit <https://michiganvirtual.org/strategic-planning/>

² Statistics cited from *Michigan's K-12 Virtual Learning Effectiveness Report, 2019-20* available at <https://michiganvirtual.org/research/publications/michigans-k-12-virtual-learning-effectiveness-report-2019-20/>

³ See the Michigan Merit Curriculum Guidelines: Online Experience document available at https://www.michigan.gov/documents/mde/Online10.06_final_175750_7.pdf

⁴ A full text version of Section 21f is available at <http://legislature.mi.gov/doc.aspx?mcl-388-1621f>

⁵ The statewide catalog of online courses can be found at <https://micourses.org>

⁶ The statewide virtual pass rate for 2019-20 is published in *Michigan's K-12 Virtual Learning Effectiveness Report 2019-20* available at <https://michiganvirtual.org/research/publications/michigans-k-12-virtual-learning-effectiveness-report-2019-20/>

⁷ More information about MICIP is available on the Michigan Department of Education's website at https://www.michigan.gov/mde/0,4615,7-140-81376_92325--,00.html

⁸ The complete *Michigan Virtual* professional learning course catalog can be found at <https://michiganvirtual.org/courses/professional/>

⁹ More information on the Future Proud Michigan Educator initiative can be found on the Michigan Department of Education website at <https://www.michigan.gov/mde/0,4615,7-140-475817--,00.html>

¹⁰ More information about the Michigan Computer Science Standards course is available at <https://michiganvirtual.org/professionals/computer-science-standards-courses/>

¹¹ More information about the *Best Practices in Human Resources* micro-credentialed course can be found at <https://michiganvirtual.org/course/masa-hr-best-practices-micro-credential-district-framework/>

¹² Detailed information related to this legislation can be found at [http://www.legislature.mi.gov/\(S\(hlzdoyz1sxazt2dpxc1wq3nm\)\)/mileg.aspx?page=GetObject&objectname=mcl-388-1698](http://www.legislature.mi.gov/(S(hlzdoyz1sxazt2dpxc1wq3nm))/mileg.aspx?page=GetObject&objectname=mcl-388-1698)

¹³ More information on IMS Global can be found at <https://www.imsglobal.org/>

¹⁴ *Michigan Virtual* blog posts related to CBE can be found at <https://michiganvirtual.org/blog/category/research/>

¹⁵ The report from this study can be found at <https://michiganvirtual.org/research/publications/vision-digital-learning-michigan-schools/>

¹⁶ The report from this study can be found at <https://michiganvirtual.org/research/publications/meeting-educators-sel-needs/>

¹⁷ More information on the Michigan CoOp can be found on their website at <https://mi-coop.com/>

- ¹⁸ The report from this study can be found at <https://michiganvirtual.org/research/publications/student-centered-learning-in-michigan-k-12-schools-factors-that-impact-successful-implementation/>
- ¹⁹ The report from this study can be found at <https://michiganvirtual.org/research/publications/competency-based-education-equitable-learning-for-michigan-students/>
- ²⁰ The full set of standards can be found on the NSQ website at <https://www.nsqol.org/the-standards/>
- ²¹ This brief can be found at <https://michiganvirtual.org/research/publications/committing-to-quality-online-learning/>
- ²² The *Effectiveness Report* is available at <https://michiganvirtual.org/research/publications/michigans-k-12-virtual-learning-effectiveness-report-2019-20/#students>
- ²³ View the Effectiveness Report infographic at <https://michiganvirtual.org/wp-content/uploads/2021/03/ER-2020-At-A-Glance-Web.pdf>
- ²⁴ View the Effectiveness Report presentation at <https://www.youtube.com/watch?v=q3L917RKD-g>
- ²⁵ The Guides to Online Learning can be found at <https://michiganvirtual.org/resources/guides/>
- ²⁶ The report from this study can be found at <https://michiganvirtual.org/research/publications/learning-continuity-in-michigan-plans-and-perceptions-from-spring-2020-emergency-remote-instruction/>
- ²⁷ The report from this study focused on student engagement strategies can be found at <https://michiganvirtual.org/research/publications/key-strategies-for-engaging-students-in-virtual-learning-environments/>
- ²⁸ The report from this study focused on teacher support strategies can be found at <https://michiganvirtual.org/research/publications/key-strategies-for-supporting-teachers/>
- ²⁹ The special education resource webpage can be found at <https://michiganvirtual.org/resources/special-education/>
- ³⁰ The *School Leader Insights* blog series can be found at <https://michiganvirtual.org/blog/category/leadership/school-leader-insights/>
- ³¹ The student-centered learning blog series can be found at <https://michiganvirtual.org/blog/category/student-centered-learning/>
- ³² The research blog series can be found at <https://michiganvirtual.org/blog/category/research/>
- ³³ The full BRIGHT podcast series can be found at <https://michiganvirtual.org/bright/>
- ³⁴ The Research Clearinghouse can be found at <https://k12onlineresearch.org/>
- ³⁵ This video presentation can be found at https://www.youtube.com/watch?v=iR4_DfyXWnM
- ³⁶ This video presentation can be found at <https://www.youtube.com/watch?v=X4xyz0WJOE>
- ³⁷ The recording of this webinar can be found at <https://michiganvirtual.org/webinar/accessibility-in-the-digital-age/>

³⁸ The current *Consumer Awareness* report is available at <https://michiganvirtual.org/research/consumer-awareness/>

³⁹ The GoOpenMichigan website can be found at <https://goopenmichigan.org/>

⁴⁰ Free learning continuity resources can be found at <https://lc.michiganvirtual.org/>

⁴¹ Course descriptions can be found at <https://michiganvirtual.org/professionals/remote-teaching/>

⁴² Knowledge base articles for micourses.org can be accessed through the *Michigan Virtual* website at <https://help.michiganvirtual.org/support/solutions/articles/65000174495-michigan-s-online-course-catalog>

⁴³ The statewide virtual pass rate for 2019-20 is published in *Michigan's K-12 Virtual Learning Effectiveness Report 2019-20* available at <https://michiganvirtual.org/research/publications/michigans-k-12-virtual-learning-effectiveness-report-2019-20/>

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