



Berrien County Mathematics and Science Center  
Michigan Merit Curriculum Online Experience

June 2007

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The Berrien County Mathematics and Science Center provides several opportunities for students to meet the Michigan Merit Curriculum Online Experience. Center students meet the online learning requirement in grades 9 and/or 11.

The Michigan Department of Education (MDE) has defined online learning as “A structured learning activity that utilizes technology with intranet/internet-based tools and resources as the delivery method for instruction, research, assessment, and communication” (2007, p.1).

Center students meet this requirement by participating in an online experience. In addition, the grade 9 activities address nearly all of the Michigan Educational Technology Standards (METS) in grades 9-12. The Center uses a blended instruction method as described in the MDE Guidelines (2007, p. 3). This includes a mix of traditional face-to-face instructional activities with online experiences. The activities in each course far exceed the suggested minimum of 20 hours.

Table 1 provides an outline of online experiences. The table includes references to the MDE’s Michigan Educational Technology Standards.

Additional information about the Online Requirement is available at [www.techplan.org](http://www.techplan.org), [www.michigan.gov/mde](http://www.michigan.gov/mde), and [www.remctoolkit.org](http://www.remctoolkit.org).

#### References

Michigan Department of Education, (2006), *Educational Technology Standards and Expectations Grades 9-12*, Lansing, MI: Author.

Michigan Department of Education, (2007), *Michigan Merit Curriculum Guidelines Online Experience*, Lansing, MI: Author.

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Grade	Course	Activity	Technology	METS
9	Computer Science I	Web research, interaction with the teacher through a management system, blogging, wikis, interaction with other students online, online projects, collaborative work through Email, research projects	Computers, Internet connection, digital cameras, spreadsheets, databases, word processor, Web browser, groupware, multimedia packages, presentation software	Basic Operations: 1, 2, 3, 4, 6, 7, 8, 11, 12, 13 Social/Ethical: 1, 2, 3, 4, 5, 6, 8, 9, 10, 11, Technology Productivity Tools: 1, 2, 4, 5, 6, 7, 8, Technology Communication Tools: 1, 2, 3, 4, 5 Technology Research Tools: 1, 2, 3, 4, 5, 6 Technology Problem Solving: 1, 2, 3
9	Mathematics Section on numbers	Collaborative work through Email, Web based instruction	Computers, Internet connection, Web browser, Email	Basic Operations: 7 Technology Productivity Tools: 1, 6 Technology Communication Tools: 2 Technology Problem Solving: 1
11	Physics	Interactive classroom response system, collaborative work through Email, interactive online homework	Computers, Internet connection, Classroom Performance System, Web browser, Email	Basic Operations: 7 Technology Productivity Tools: 1, 6 Technology Communication Tools: 2 Technology Problem Solving: 1
11 for most students, 9 or 10 for others	PreCalculus	Collaborative work through Email, interactive online homework	Computers, Internet connection, Web browser, Email	Basic Operations: 7 Technology Productivity Tools: 1, 6 Technology Communication Tools: 2 Technology Problem Solving: 1

Table 1. Berrien County Mathematics and Science Center Online Experiences