



CREDIT EQUIVALENCY GUIDE

	3 rd Science Credit ^o		World Lang Exchange+		Alg 2 Alignment	4 th Year Math	VPAA*	OLE**
	Yrs@OSTC	Credit	Yrs@OSTC	Credit	Meets	Meets	Meets	Meets
Visual Imaging	1	1	1	1	Yes	Yes	Yes	Yes

Agriculture, Food & Natural Resources								
	3 rd Science Credit ^o		World Lang Exchange+		Alg 2 Alignment	4 th Year Math	VPAA*	OLE**
	Yrs@OSTC	Credit	Yrs@OSTC	Credit	Meets	Meets	Meets	Meets
Biotechnology and Environmental Science	1	1	1	1	Yes	Yes	Yes	Yes
^ Additional Embedded Credit: Biotechnology (NCAA Approved)								
^ Available with additional lab work: Biology								

Architecture & Construction								
	3 rd Science Credit ^o		World Lang Exchange+		Alg 2 Alignment	4 th Year Math	VPAA*	OLE**
	Yrs@OSTC	Credit	Yrs@OSTC	Credit	Meets	Meets	Meets	Meets
Construction Trades	1	1	1	1	Yes	Yes	Yes	Yes

EET (Engineering & Emerging Technology) ^								
	3 rd Science Credit ^o		World Lang Exchange+		Alg 2 Alignment	4 th Year Math	VPAA*	OLE**
	Yrs@OSTC	Credit	Yrs@OSTC	Credit	Meets	Meets	Meets	Meets
Mechatronics	1	1	1	1	Yes	Yes	Yes	Yes
Machine Tool Operations / Machine Shop	1	1	1	1	Yes	Yes	Yes	Yes
Welding, Brazing and Soldering	1	1	1	1	Yes	Yes	Yes	Yes
^ Additional Embedded Credit: Technical Physics								

iTEAM (Marketing & Information Technology)								
	3 rd Science Credit ^o		World Lang Exchange+		Alg 2 Alignment	4 th Year Math	VPAA*	OLE**
	Yrs@OSTC	Credit	Yrs@OSTC	Credit	Meets	Meets	Meets	Meets
Computer Programming/Programmer	1	1	1	1	Yes	Yes	Yes	Yes
Digital/Multimedia & Info Resource Design	1	1	1	1	Yes	Yes	Yes	Yes
Computer Sys Net & Telecommunications	1	1	1	1	Yes	Yes	Yes	Yes
Marketing Sales and Services	1	1	1	1	Yes	Yes	Yes	Yes

Hospitality & Tourism								
	3 rd Science Credit ^o		World Lang Exchange+		Alg 2 Alignment	4 th Year Math	VPAA*	OLE**
	Yrs@OSTC	Credit	Yrs@OSTC	Credit	Meets	Meets	Meets	Meets
Cooking & Related Culinary Arts	1	1	1	1	Yes	Yes	Yes	Yes

o To obtain 3rd Science Credit – Student must pass all 12 segments of CTE program
+ To substitute 1 credit of World Language – Student must pass all 12 segments of CTE program
* VPAA = Visual, Performance, Applied Art
** OLE = Online Learning Experience
^ Programs within this cluster offer additional embedded credit as noted



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Health Science ^

	3 rd Science Credit ^o		World Lang Exchange ⁺		Alg 2 Alignment Meets	4 th Year Math Meets	VPAA*	OLE**
	Yrs@OSTC	Credit	Yrs@OSTC	Credit				
Health Science	1	1	1	1	Yes	Yes	Yes	Yes

^ Additional Embedded Credit: Anatomy and Physiology (NCAA Approved)

Human Services ^

	3 rd Science Credit ^o		World Lang Exchange ⁺		Alg 2 Alignment Meets	4 th Year Math Meets	VPAA*	OLE**
	Yrs@OSTC	Credit	Yrs@OSTC	Credit				
Cosmetology	2	1	2	1	Yes	Yes	Yes	Yes

^ Additional Embedded Credit: Functional Biochemistry

Transportation, Distribution & Logistics

	3 rd Science Credit ^o		World Lang Exchange ⁺		Alg 2 Alignment Meets	4 th Year Math Meets	VPAA*	OLE**
	Yrs@OSTC	Credit	Yrs@OSTC	Credit				
Collision Repair Tech (NATEF Certified)	1	1	1	1	Yes	Yes	Yes	Yes
Automobile Tech (NATEF Certified)	2	1	2	1	Yes	Yes	Yes	Yes
Medium/Heavy Truck Tech (NATEF Certified)	1	1	1	1	Yes	Yes	Yes	Yes

ADDITIONAL CREDIT OPPORTUNITIES

Academic Courses: Taught by Highly Qualified Instructor:

ELA 12
PHYSICS (NCAA Approved)
ALGEBRA 2 (NCAA Approved)

Credit Recovery: Online Delivery Through Edgenuity

ALGEBRA 1, GEOMETRY
ELA 9, 10, 11
OTHER COURSES AS REQUESTED BY SENDING SCHOOL OR STUDENT

^o To obtain 3rd Science Credit – Student must pass all 12 segments of CTE program
⁺ To substitute 1 credit of World Language – Student must pass all 12 segments of CTE program
* VPAA = Visual, Performance, Applied Art
** OLE = Online Learning Experience
^ Programs within this cluster offer additional embedded credit as noted

QUICK REFERENCE CREDIT CHART

See Credit Equivalency Guide For More Detail



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Academic Credit Offered (Embedded Within Program) Or (MMC Approved Exchange/Option)	Instructional Delivery	Biotechnology	ITEAM	Construction	Cosmetology	Culinary / Hospitality	EET (Engineering)	Health Science	Transportation	Visual Imaging
4 th Year Math Credit	Available in all clusters Approved as 4th Year Math Credit	X	X	X	X	X	X	X	X	X
Algebra 2 Alignment (Meets Alg 2 Benchmarks on State Assessment)	Collaborative Teaching* Model (HQ** Math and CTE Instructor)	X	X	X	X	X	X	X	X	X
3 rd Science Credit ^ (Student Must Complete Program)	Available in all clusters MMC Option	X	X	X	X	X	X	X	X	X
World Language – 1 credit (Student Must Complete Program)	Available in all clusters MMC Option	X	X	X	X	X	X	X	X	X
Anatomy and Physiology (NCAA Approved)	Collaborative Teaching* Model (HQ** Science and CTE Instructor)							X		
Functional Biochemistry	Collaborative Teaching* Model (HQ** Science and CTE Instructor)				X					
Technical Physics	Collaborative Teaching* Model (HQ**Science and CTE Instructor)						X			
Biotechnology (NCAA Approved)	Collaborative Teaching* Model (HQ** Science and CTE Instructor)	X								
Academic Courses – Not Embedded (Students pulled from cluster for instruction, or complete added content within cluster)	Instructional Delivery									
Algebra 2 (Full Course) (NCAA Approved)	HQ** Math Instructor	X	X	X	X	X	X	X	X	X
ELA 12	HQ** ELA Instructor	X	X	X	X	X	X	X	X	X
Physics (NCAA Approved)	HQ** Science Instructor	X	X	X	X	X	X	X	X	X
Biology	HQ** Science Instructor	X								
Credit Recovery Options	Instructional Delivery	To be arranged directly between District / Campus Administration								
Algebra 1, Geometry	HQ** Math Coach On-Line Through Edgenuity	X	X	X	X	X	X	X	X	X
ELA 9, 10, 11	HQ** English Coach On-Line Through Edgenuity	X	X	X	X	X	X	X	X	X
Others courses as requested by sending school / student	HQ** Coach On-Line Through Edgenuity	X	X	X	X	X	X	X	X	X

- Academic Credit Accepted by 28 School Districts

* - Collaborative Teaching Model- This model has the involvement of at least one certified CTE teacher and at least one highly qualified teacher of the core academic subject

** - HQ: Highly Qualified Instructor

^ - If CTE program allows you to earn Biology or Anatomy, student is not eligible to earn 3rd science credit in same year

DETAIL: MMC REQUIREMENTS & ALTERNATIVE OPTIONS



Michigan Merit Curriculum HB 4465 and 4466 –June 12, 2014

Enrolled: Public Acts 208 and 209 of 2014; Effective: Begins 2014-15 School Year with 2015 Graduates (WL for 2016 Graduates)

Diploma Requirement	Total # of Credits	Alternative Options w/o a Personal Curriculum	Alternative Options w/ a Personal Curriculum
Mathematics	4 Credits: <ul style="list-style-type: none"> • 1 cr Algebra • 1 cr Geometry • 1 cr Algebra II • Flexibility in 4th credit • At least one credit in Final Year of HS (Final two years with a PC) 	<ul style="list-style-type: none"> • List of mathematics courses could be substituted including Financial Literacy. • Algebra II can be taken over two years for two credits; or 1 ½ years for 1 ½ credits. • Algebra II can be substituted with a State approved formal CTE Program* provided that a student successfully completes the same content as Algebra II benchmarks assessed on State Assessment in that program. • completes same content as Algebra II in two years 	Personal Curriculum can be used for the student to attain at least 3½ credits in Mathematics including Algebra, Geometry, and 1 credit during the final two years of High School. Modifications can also be made in the Algebra II requirement as stated in MCL 380.1278b: <ul style="list-style-type: none"> • completes 1 semester of Statistics, Functions and Data Analysis • Completes Technical Math (District defined).
Science	3 Credits: <ul style="list-style-type: none"> • 1 cr Biology • 1 cr Chemistry, Physics, Anatomy or Ag Science • 1 additional credit 	<ul style="list-style-type: none"> • Chemistry or Physics may be substituted with a course that covers the same content as the Chemistry or Physics benchmarks assessed on State Assessment in that course. • The 1 credit may be an MDE-approved Computer Science or formal State approved CTE Program* (regardless of the CTE program content) 	Cannot be modified by a Personal Curriculum except for Students w/ an IEP.
English Language Arts	4 Credits		Cannot be modified by a Personal Curriculum except for Students w/ an IEP.
Social Science	3 Credits: <ul style="list-style-type: none"> • 1 cr US History and Geography • 1 cr World History and Geography • ½ cr Economics • ½ cr Civics 		Personal Curriculum can be used to modify the requirements if the student has: <ol style="list-style-type: none"> a) completed 2 cr including Civics, AND b) the modification requires the student to complete 1 add'l cr in ELA, Math, Science Language other than English, OR a State approved formal CTE program.
Health and Physical Education	<ul style="list-style-type: none"> • ½ cr Health • ½ cr Physical Education 	<ul style="list-style-type: none"> • ½ cr in Physical Education is allowed for participation in extracurricular athletics or related physical activity – note this is already allowed under MCL 380.1502 	Personal Curriculum can be used to modify the requirements if the student completes 1 add'l cr in ELA, Math, Science, Language other than English, OR a State approved formal CTE program.* AND still meets the requirement of MCL 380.1502



DETAIL: MMC REQUIREMENTS & ALTERNATIVE OPTIONS

Diploma Requirement	Total # of Credits	Alternative Options w/o a Personal Curriculum	Alternative Options w/ a Personal Curriculum
Visual Arts, Performing Arts or Applied Arts	<ul style="list-style-type: none"> At least 1 cr 	<ul style="list-style-type: none"> A school district or PSA is “strongly encouraged” to offer Visual / Performing Arts courses. 	Personal Curriculum can be used to modify the requirements if the student completes 1 add’l cr in ELA, Math, Science Language other than English, OR a State approved formal CTE program.*
On-line Course Experience	<ul style="list-style-type: none"> At least 1 course or on-line learning experience as MDE appvd, OR An integrated on-line experience. 		
Language other than English	<ul style="list-style-type: none"> At least 2 cr in Grades K-12 Course content must be grade appropriate (not HS equivalent). 	<ul style="list-style-type: none"> For 2015-16 thru 2019-20: <ul style="list-style-type: none"> 1 cr may be substituted with a State approved formal CTE Program/Curriculum* OR 1 cr may be substituted with additional Visual / Performing Arts instruction. Board is “strongly encouraged” to provide at least 1 cr in Language other than English in Grades K-6. 	

Changed Requirements include:

- If a Personal Curriculum is requested, the school district / PSA shall develop a Personal Curriculum. An in-person meeting is not required. However, the parent and school official must still agree on the implementation of a Personal Curriculum. Quarterly follow-ups are no longer required.
- School districts or PSAs shall not discourage pupils seeking and receiving a personal curriculum modification.
- A School district and PSA annually shall notify pupils and parents of the Michigan Merit Curriculum and Personal Curriculum modifications; such notice can be provided in a newsletter, student handbook or similar communication that is sent to pupil’s home.
- During the process of developing students’ Education Development Plans (EDP), school districts and PSAs shall advise students of the curricular requirements and how those requirements can be fulfilled in CTE programs

*A formal CTE Program is defined in the [Michigan Administrative Code](#). According to R 395.241, Rule 11, a “**Department approved formal CTE program or curriculum**” consists of:

- A coherent sequence of courses so that students gain academic, technical, and work behavior skills.
- Instruction that includes classroom, laboratory, work based learning, and leadership opportunities.
- Instruction that is supervised, directed, or coordinated by an appropriately certificated career and technical education teacher.
- Consists of standards approved by the state board ([R395.243](#), Rule 13)
- Must receive approval from MDE/OCTE through an application process (R 395.244, Rule 14)

According to R 395.243, Rule 13 “**Successful Completion**” mean:

- Complete coursework covering all state program standards
- Take any required technical assessment