



January 9, 2025

Dear 8th Grade Parents and Guardians:

Next year, your student enters Owosso High School (OHS) to begin an exciting four years. It is also a very critical time for them, with important decisions that include college and career planning. In addition, all high school students are required to follow the Michigan Merit Curriculum, a rigorous set of courses that challenge students to work harder than ever before. You can access the interactive **2025-2026 Incoming-9th Grade Curriculum Guide** by going to our OHS Student Services Center (SSC) website, ReachHigherOHS.org/2029. To request a paper copy of the Guide, contact the OHS SSC, 989-729-5495, reachhigherohs@gmail.com.

To prepare you and your student for this transition, we have several processes in place that will assist you in getting to know us at the high school, prepare your students for our engaging curriculum, and help them schedule their classes for next year. I am inviting you and your student to attend the **OHS Incoming-9th Grade Orientation on Tuesday, January 28, 2025, 6:30 pm, OHS: Performing Arts Center (PAC)**. During the orientation, we will be discussing our 21st century curriculum and the numerous extracurricular opportunities available at OHS.

In the weeks following the orientation meeting, OHS counselors will work with students on selecting classes for next year. Counselors will present this information to your child in their 8th grade English classrooms.

We look forward to seeing you and your student at the **Incoming-9th Grade Orientation** on January 28th 6:30 pm at OHS in the Performing Arts Center.

Sincerely,

Dr. Dallas Lintner
Principal
Owosso High School

	<p>Dates to Remember:</p> <ul style="list-style-type: none">• January 28, 6:30 pm, PAC - Incoming-9th Grade Orientation• February - Student presentation held in 8th grade English classrooms• August - Trojan Day at OHS	
--	---	--



Out of the Blue
OWOSSO LEADS THE WORLD

ReachHigherOHS.org

 @ReachHigherOwossoHighSchool

  @ReachHigherOHS



OWOSSO PUBLIC SCHOOLS

Ready for the World

**2025-2026
OWOSSO HIGH SCHOOL
CLASS OF 2029
INCOMING 9TH GRADE
PACKET & CURRICULUM GUIDE**



Notification of Nondiscrimination Statement and Compliance Officers:

The Owosso Public School District does not discriminate on the basis of race, color, national origin, sex (including sexual orientation or gender identity), disability, age, religion, height, weight, marital or family status, military status, ancestry, genetic information, or any other legally protected category, (collectively, "Protected Classes"), in its programs and activities, including employment opportunities. In addition, arrangements can be made to ensure that the lack of English language proficiency is not a barrier to admission or participation.

The following compliance officers have been designated to handle inquiries regarding the nondiscrimination policies and grievance procedures: Rich Collins, Principal, Owosso Middle School, 765 E. North St., Owosso, MI 48867, (989) 723-3460, collinsr@owosso.k12.mi.us or Dr. Catheryn Dwyer, Assistant Superintendent of Curriculum & Instruction, Owosso Public Schools, 645 Alger St., Owosso, MI 48867, (989) 723-8131, dwyerc@owosso.k12.mi.us. The Section 504 Coordinator is Bridgit Spielman, Principal, Bryant Elementary, 925 Hampton St., Owosso, MI 48867, (989) 723-4355, spielman@owosso.k12.mi.us.

TABLE OF CONTENTS

Table of Contents.....	i
Public Act 160 - Post-Secondary Enrollment Options Act.....	ii
MICHIGAN MERIT CURRICULUM (MMC).....	iv
Report Card – Grading.....	v
Testing Out Timeline.....	vi
4 Year Planning Worksheet.....	vii
9 th Grade Registration Worksheet.....	viii
9 TH GRADE CORE CURRICULUM.....	1
Language & Literature Department.....	1
Mathematics Department.....	2
Science Department.....	4
Individuals & Society Department.....	6
Physical Education/Health Department.....	7
Language Acquisition.....	10
Instrumental Music Department.....	11
Vocal Music Department.....	12
Art Department.....	13
SPECIAL EDUCATION DEPARTMENT.....	14
SE Mathematics.....	14
SE Language & Literature.....	14
SE Science.....	15
SE Individuals & Society.....	15
SE Electives.....	16
CAREER AND TECHNICAL EDUCATION.....	16
Agriscience Program.....	17
Business Program.....	18
Construction Trades Program.....	18
Culinary Arts Program.....	19
Engineering & Manufacturing Program.....	19
Wood Technology Program.....	20
Appendix A: CTE Credits Available.....	21
Glossary.....	23

PUBLIC ACT 160 - POST-SECONDARY ENROLLMENT OPTIONS ACT

Public Act 160 was created the Post-Secondary Enrollment Options Act, commonly referred to as dual enrollment. This law directs school districts to assist students in paying tuition and fees for courses at Michigan public or private colleges or universities, if all the following conditions are met:

1. Students are in grade 11 or 12.
2. Students can qualify for dual enrollment by taking one of the following assessments: PSAT, SAT, ACT, or MME. The following table shows the complete list of scores that qualify students for dual enrollment:

Assessment	Test Section	Content Area	Minimum Dual Enrollment Qualifying Score
PSAT 8/9 PSAT 10 PSAT/NMSQT	Critical Reading	Evidence-Based Reading & Writing	460
	Mathematics	Mathematics	510
SAT	Critical Reading	Evidence-Based Reading & Writing	480
	Math	Math	530
ACT	Mathematics	Mathematics	22
	Reading	Reading	22
	Science	Science	23
	English	English	18
Michigan Merit Exam	Reading	Reading	2100
	Writing	Writing	2100
	Mathematics	Mathematics	2100
	Science	Science	2100
	Social Studies	Social Studies	2100

Additionally, Public Act 160, the Post-secondary Enrollment Options Act, eligible students may take courses for which there are not endorsements, such as computer science, foreign language, history, political science, or psychology, as long as they have taken all sections of the MME, ACT,

PLAN, or College Board PSAT. State endorsement is not required in any specific area for this participation.

1. Students must be enrolled in both the school district and post-secondary institution during the local school district's regular academic year and must be enrolled in at least one high school class.
2. The district must not offer the college courses. An exception to this could occur if the local board of education determines that a scheduling conflict exists, which is beyond the student's control.
3. The college courses cannot be a hobby, craft or recreation course, or in the subject areas of physical education, theology, divinity, or religious education.
4. School districts are required to pay the lesser of:
 - a. The actual charge for tuition, mandatory course fees, materials fees and registration fees, or
 - b. That state portion of the students' foundation allowance, adjusted to the proportion of the school year they attend the post-secondary institution.

Should you have any questions regarding dual enrollment and if it is something your child may want to include in their four-year plan, contact your child's counselor to discuss the potential for enrollment during the junior or senior year.

MICHIGAN MERIT CURRICULUM (MMC)

REQUIREMENTS FOR GRADUATION: 9TH GRADE

LANGUAGE & LITERATURE = 4 CREDITS

(1 credit) 9th grade	Lang & Lit 9 or Lang & Lit 9 Honors
(1 credit) 10th grade	Lang & Lit 10 or Lang & Lit 10 Honors
(1 credit) 11th grade	Lang & Lit 11, Lang & Lit 11 Honors, AP English Lang/Comp, or Lit of Theater Arts
(1 credit) 12th grade	Lang & Lit 12, Lang & Lit 12 Honors, AP English Lang/Comp, Lit of Theater Arts, or CTE Completer

MATHEMATICS = 4 CREDITS

(1 credit) 9th grade	Algebra One, Geometry, Applied Algebra Two, Algebra Two A, or Algebra Two Honors
(1 credit) 10th grade	Geometry, Applied Algebra Two, Algebra Two A, Algebra Two B, or Algebra Two Honors
(1 credit) 11th grade	Applied Algebra Two, Algebra Two A, Algebra Two B, or Algebra Two Honors
(1 credit) 12th grade	4th Year Math, Math in Content Area, or Algebra Two B
(.50 credit) 12th grade	Personal Finance

SCIENCE = 3 CREDITS

(1 credit) 9th grade	<u>Requirement based on cohort year:</u> <ul style="list-style-type: none">• (2025 & 2026) Life Science or Life Science Honors• (2027 & 2028) Introduction to Biology & Chemistry, Biology Honors, or STEM Exploration
(1 credit) 10th grade	<u>Students select from one of the science-Pathways:</u> <ul style="list-style-type: none">• Agriscience – Zoology or Agriculture• Biomedical – Principles of Biomedical• Engineering – STEM Exploration; Intro to Engineering Design or Principals of Engineering• Honors – Chemistry Honors• Traditional – Chemistry or Chemistry Honors or Physics
(1 credit) 11th/12th grade	Science Course or CTE Program of Study Completion*

INDIVIDUALS & SOCIETY = 3 CREDITS

(1 credit) 9th grade	United States History or United State History Honors
(1 credit) 10th grade	World History, World History Honors, or AP World History
(1 credit) 11th grade	Economics/Civics or AP Government

PHYSICAL EDUCATION/HEALTH = 1 CREDIT

(1 semester)	General PE, Aerobic Fitness, STC
(1 semester)	Health
OR	
(4 credits)	Band
(.50 credit)	Health
OR	
(.50 credit)	2 years of participation on an athletic team
(.50 credit)	Health

FOREIGN LANGUAGE = 1.5 CREDITS IN THE SAME FOREIGN LANGUAGE

VPAA – Visual, Performing and Applied Arts = 1 credit

*Student should check the 10th-12th Grade Curriculum Guide's [Appendix A](#) for CTE Program of Study Completion to confirm what CTE Courses provide high school diploma core credits.

Owosso High School Total Credits Needed to Graduate = <u>26</u>
--

REPORT CARD – GRADING

Report cards are distributed to students at the end of each semester. Parents can view grades, assignments and attendance through the PowerSchool Portal any hour of the day. Parents can also email questions and concerns to teachers at any time. It is recommended that semester grades reflect 40% for each marking period and 20% for the final exam.

A grade point average (GPA) is computed from all final grades to determine a student's class rank. At the completion of 7th semester grades senior year, students who have achieved a 3.0 – 3.49 GPA will graduate with "Honors", and seniors who have attained a 3.5 – 3.99 GPA will graduate with "High Honors" and 4.0 or above GPA will graduate with "Highest Honors". Courses taken outside of the normal school day can be recorded on the transcript but are excluded from GPA, Ranking and Honor Roll.

In determining a student's GPA, traditional letter grades are converted to numerical values according to the following scale.

Letter Grade:

A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
4.0	3.8	3.5	3.0	2.8	2.5	2.0	1.8	1.5	1.0	0.8	0.0

To figure the GPA, simply add the numerical values for each course taken and divide the sum by the number of classes taken.

TESTING OUT TIMELINE

DEADLINES:	TASKS TO DO:
<ul style="list-style-type: none"> • Friday, May 23, 2025 	Last day for testing out sign up
<ul style="list-style-type: none"> • Friday, May 30, 2025 	Materials from teachers for testing out go to <u>Main Office</u>
<ul style="list-style-type: none"> • June 2-5, 2025 	Students pick up materials in the <u>Main Office</u>
<ul style="list-style-type: none"> • Monday, August 4, 2025 	9:00 a.m. test date with Dr. Lintner, OHS Principal in <u>Main Office</u>
<ul style="list-style-type: none"> • August 11-13, 2025 	Teachers grade/submit to Student Services Center <ul style="list-style-type: none"> ▪ Students receive results after Labor Day

TESTING-COMPETENCY DEMONSTRATION

The State of Michigan mandates competency testing or *testing out*; it allows any high school student to test out of a course offered by his or her high school. Testing out is restricted to core classes only: it does not include health, physical education, or online courses.

Competency testing procedures are as follows:

- ✓ Students must demonstrate mastery of course content by earning a grade of 77% or better on each component of a comprehensive final exam.
- ✓ Successfully passing a given test results in credit being earned for that class; a grading code of “CR” is recorded on the student’s official transcript along with credit towards graduation. The grade will not be calculated in the GPA.
- ✓ Passing a test is equal to fulfilling a requirement in a course sequence.
- ✓ Once credit is granted by testing out, a student may not receive credit for a prerequisite course in that sequence.
- ✓ Students considering testing out should see their school counselor.
- ✓ Students must follow the testing out timeline established by administration.

4 YEAR PLANNING WORKSHEET

Name: _____

<u>9th Grade</u>	<u>10th Grade</u>
1. Language & Literature 9 or Language & Literature 9 H	1. Language & Literature 10 or Language & Literature 10 H
2. Math (_____)	2. Math (_____)
3. Introduction to Biology & Chemistry or Biology H	3. Chemistry or Chemistry H; select the science-Pathway to follow: Agriscience, Biomedical, Engineering, Honors, or Traditional
4. US History or US History H	4. World History, World History H, AP World History
5. _____	5. _____
6. _____	6. _____
7. _____	7. _____
<u>11th Grade</u>	<u>12th Grade</u>
1. Language & Literature 11, Language & Literature 11 H, AP English Language/Composition, or Lit Theater Arts	1. Language & Literature 12, Language & Literature 12 H, AP English Literature/Composition, or CTE Completer
2. Math (_____)	2. Math (_____)
3. Follow Science-Pathway _____	3. _____
4. Economics/Civics or AP Government	4. _____
5. _____	5. _____
6. _____	6. _____
7. _____	7. _____

Note: All students must also take the following credits:

- online experience requirement.
- ½ credit of health.
- ½ credit of physical education; there are alternative ways to earn the credit.
- 2 credits of foreign language: students may have completed one-year in middle school; there are alternative ways to earn the second credit; and highly selective colleges/universities require 2 years of the *same* foreign language (e.g., Spanish 1 and Spanish 2).
- ½ credit of personal finance

9TH GRADE REGISTRATION WORKSHEET

Student's Name: _____ Date _____

Parent Signature: _____ Date _____

Language and Literature				
Course No.	Course Name	Grade Levels	Credit	Course Requested – Check the Box
HS0103AA	Language & Literature 9	9	1	<input type="checkbox"/>
HS0104AA	Language & Literature 9 Honors	9	1	<input type="checkbox"/>
Mathematics				
Course No.	Course Name	Grade Levels	Credit	Course Requested – Check the Box
HS0111GA	Algebra One	9	1	<input type="checkbox"/>
HS0108GA	Geometry	9,10	1	<input type="checkbox"/>
HS0109GA	Geometry Honors	9,10	1	<input type="checkbox"/>
HS0104GA	Applied Algebra Two	9,10,11,12	1	<input type="checkbox"/>
HS0105GA	Algebra Two A	9,10,11	1	<input type="checkbox"/>
HS0107GA	Algebra Two Honors	9,10,11,12	1	<input type="checkbox"/>
Individuals & Society				
Course No.	Course Name	Grade Levels	Credit	Course Requested – Check the Box
HS0101EA	United States History	9	1	<input type="checkbox"/>
HS0102EA	United States History Honors	9	1	<input type="checkbox"/>
Science				
Course No.	Course Name	Grade Levels	Credit	Course Requested – Check the Box
HS0100CA	Introduction to Biology & Chemistry	9	1	<input type="checkbox"/>
HS0101CA	Biology Honors	9	1	<input type="checkbox"/>

Student's Name: _____ Date _____

Elective Course Selections		
Course No.	Course Name	Credit
HS0113CA	Principles of Biomedical Engineering	1
HS0998QA	STEM Exploration	1
HS0408QA	Zoology & Agricultural Systems	1
HS0131DA	Practical Psychology	1
HS0100NB	Health	½
HS0105IA	General Physical Education	½
HS0113IA	Aerobic Fitness*	½ or 1
HS0108IA	Girl's Advanced Strength Training & Conditioning (STC)*	½ or 1
HS0100IA	Boy's Advanced Strength Training & Conditioning (STC)*	½ or 1
HS0107IA	Strength Training & Conditioning (STC)*	½ or 1
HS0114IA	Advanced Physical Education*	½ or 1
HS0100SA	Spanish I	1
HS0121JA	Freshman Band	1
HS0123JA	Jazz Band**	1
HS0121JA	Bel Canto	1
HS0133JA	Varsity Choir	1
HS0114JA	Art I	1
HS0115HA	Introduction to Careers & Life Skills	½
HS0112HA	Sports and Entertainment Management/Marketing I	1
HS0404QA	Introduction to Shop Tools	½
HS0420QA	Introduction to Kitchen Tools	½
ALTERNATE CLASS - PICK 1		
1.		
*Can select for a full year		
** MUST take Freshman Band Concurrently		

MICHIGAN MERIT CURRICULUM (MMC)

9TH GRADE CORE CURRICULUM

LANGUAGE & LITERATURE DEPARTMENT

COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0103AA/HS0103AB	Language & Literature 9	9	1

Prerequisite: None.

This is the first high school level English class that covers a broad range of writing, literature, informational (non-fiction text), language and speaking skills. Students will review the writing process and write several varieties of essay including narrative, argumentative, and informative/explanatory. Students will learn the fundamentals of literary terms and work with an assortment of literature and informational texts. *To Kill a Mockingbird*, *Of Mice and Men*, *The Tragedy of Romeo and Juliet*, *The Glass Castle*, and novels of choice are pieces of literature addressed, along with a variety of informational articles and non-fiction texts. Language standards, which include grammar and vocabulary, are stressed along with speaking and listening skills, and critical reading.

▪ This course fulfills the MMC 9th Grade English Requirement.

Program Opportunities:

- o Agri-Science and Natural Resources
- o Arts and Communication
- o Business, Management, Marketing, and Technology
- o Engineering, Manufacturing, and Industrial Technology
- o Health Sciences
- o Human Services

COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0104AA/HS0104AB	Language & Literature 9 Honors	9	1

Prerequisite: None.

This is the first high school level English class that covers a broad range of writing, literature, informational (non-fiction text), language and speaking skills. Students will review the writing process and write several varieties of essay including narrative, argumentative, and informative/explanatory. Students will learn the fundamentals of literary terms and work with an assortment of literature and informational texts. *To Kill a Mockingbird*, *Of Mice and Men*, and novels of choice are pieces of literature addressed, along with a variety of informational articles, non-fiction text, and the works of William Shakespeare. Language standards, which include grammar and vocabulary, are stressed along with speaking, listening, critical reading, critical writing, and critical thinking.

→ Important Course Considerations:

- ✓ This course requires additional reading and writing outside of class time.
- ✓ The majority of grading comes from essays and tests.

▪ This course fulfills the MMC 9th Grade English Requirement.

Program Opportunities:

- o Arts and Communication
- o Agri-Science and Natural Resources
- o Business, Management, Marketing, and Technology
- o Engineering, Manufacturing, and Industrial Technology
- o Health Sciences
- o Human Services




MATHEMATICS DEPARTMENT

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0111GA/HS0111GB	Algebra One	9	1


Prerequisite: None.

The class is application motivated and begins with a unit on algebraic symbols, order of operations, probability and relative frequency. Students will study first-degree equations, inequalities, linear functions and inequalities. Other topics include: Exponents, Pythagorean theorem, polynomials, including operations with polynomials, factoring and perfect squares; systems of linear equations including inequalities; quadratic equations and the quadratic formula are used.

- This course fulfills the MMC algebra one requirement.

 Program Opportunities:

- o Agri-Science and Natural Resources
- o Arts and Communication
- o Business, Management, Marketing, and Technology
- o Engineering, Manufacturing, and Industrial Technology
- o Health Sciences
- o Human Services

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0108GA/HS0108GB	Geometry	9-10	1

Prerequisite: Algebra One.

Geometry encompasses one, two and three-dimensional figures. Students will begin with points, lines, angles, and conditional statements. Transformational geometry is used to facilitate the understanding of polygons and quadrilaterals. Symmetry lines are used to develop properties of figures. Reflections are used to help students understand congruent figures including triangles. Additional topics include, triangle congruence, Pythagorean theorem, area, volume, coordinate geometry, similarity, logic, indirect reasoning, right triangle geometry and circles.

- This course fulfills the MMC geometry requirement.

 Program Opportunities:

- o Agri-Science and Natural Resources
- o Arts and Communication
- o Business, Management, Marketing, and Technology
- o Engineering, Manufacturing, and Industrial Technology
- o Health Sciences
- o Human Services

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0109GA/HS0109GB	Geometry Honors	9-10	1

Prerequisite: Students who have not followed the honors curriculum would require teacher recommendation to take this course. This is a continuation of the 8th grade Algebra One math sequence.

- Extensive use of algebra skills will be required throughout the course.
- If you take this course, you must also take second semester HS0109GB – Geometry Honors.




Honors Geometry course will cover all topics in geometry with a greater emphasis on formal geometric proof. Students will use problem-solving strategies to solve challenging problems that require critical thinking skills.

- This class is designed for students who are planning on taking Honors Pre - Calculus or AP Calculus their senior year.
- This course fulfills the MMC geometry requirement.
- ⊛ Program Opportunities:
 - o Agri-Science and Natural Resources
 - o Arts and Communication
 - o Business, Management, Marketing, and Technology
 - o Engineering, Manufacturing, and Industrial Technology
 - o Health Sciences
 - o Human Services


 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0105GA/HS0105GB	Algebra Two A	9-12	1

Prerequisite: Credit received in Geometry and Algebra One.

 Take Note: This class is designed for students who need to take Algebra Two over a 2-year period.

This is a yearlong class that is designed to meet the MCC requirements for the first semester of Algebra Two. The class will include the study of the following: data and linear representations, exponents and functions, systems of linear equations and inequalities, matrices, factoring, quadratic functions, polynomials, including operations with polynomials, and imaginary numbers. Students will use a graphic calculator to model data and analyze functions throughout the entire course. This course fulfills the MMC Requirement ONLY for Semester 1 Algebra Two.

- ⊛ Program Opportunities:
 - o Agri-Science and Natural Resources
 - o Arts and Communication
 - o Business, Management, Marketing, and Technology
 - o Engineering, Manufacturing, and Industrial Technology
 - o Health Sciences
 - o Human Services

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0116FA/HS0116GB	Applied Algebra Two	9-12	1

Prerequisite: Algebra One and Geometry.

This class will include the study of the following: data and linear representations, exponents and functions, systems of linear equations and inequalities, matrices, factoring, quadratic functions and imaginary values, exponential and logarithmic functions, polynomial functions, rational and radical functions, probability and statistics, and trigonometry. Students will use a graphing calculator and web-based applications to model data and analyze functions throughout the entire course.

The course will utilize a problem-based core curriculum designed to address content and mathematical practices to foster learning. Students learn by doing math, solving problems in mathematical and real-world contexts, and constructing arguments using precise language. Through structured explorations and tasks, students will make connections between mathematical concepts and procedures.

- This course is designed to meet the MMC requirement for Algebra Two.
- ⊛ Program Opportunities:
 - o Agri-Science and Natural Resources
 - o Arts and Communication
 - o Business, Management, Marketing, and Technology




o Engineering, Manufacturing, and Industrial Technology

o Health Sciences
o Human Services

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0107GA/HS0107GB	Algebra Two Honors	9-12	1

Prerequisite: Completion of Honors Geometry with an A or B. Teacher recommendation.

 Take Note: This class is designed for students who are planning on taking AP Calculus their junior or senior year.

This class is designed to meet the Michigan Merit Curriculum for Algebra Two. Algebra Two Honors will explore topics such as linear equations and inequalities, matrices, systems of equations and inequalities, basic trigonometry, quadratic functions, polynomial functions rational functions, exponential properties and trigonometry. As an honors level course this section utilizes a more advanced text, ACT/SAT prep materials and extensive use of graphing calculators to prepare students for Pre-Calculus and the ACT/SAT exams.

▪ This course fulfills the MMC algebra two requirement.

✪ Program Opportunities:

o Business, Management, Marketing, and Technology
o Engineering, Manufacturing, and Industrial Technology

o Health Sciences

SCIENCE DEPARTMENT

CLASSES OF 2027+

Pathway 1 - Agriculture

9th Introduction to Biology & Chemistry or Biology Honors
10th Biology 10 or Zoology & Agricultural Systems (Agriculture)
11th Botany & Natural Resources (3rd Year of Science)

Pathway 2 - Biomedical

9th Introduction to Biology & Chemistry or Biology Honors
10th Biology 10 or Principles of Biomedical Sciences (3rd Year of Science)
11th Human Body Systems (Anatomy)
12th Medical Interventions

Pathway 3 - Engineering


9th Introduction to Biology & Chemistry or Biology Honors
10th Biology 10, STEM Exploration, or Principles of Engineering (3rd year of science)
11th Introduction to Engineering Design
12th Engineering Capstone
9th Biology Honors
10th Chemistry Honors (Chemistry)
11th Advanced Biology, Physics Honors, Advanced Placements (AP), etc. (3rd Year of Science)

Pathway 5 - Traditional

9th Introduction to Biology & Chemistry
10th Biology 10
11th Physical Science, Chemistry, Physics, or Conceptual Physics (3rd Year of Science)

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0100CA/ HS0100CB	Introduction to Biology & Chemistry	9	1

Pre-requisite: None

 Take Note: Students should expect to have daily assignments, projects, and/or homework.

This one-year study of biology will focus on the prerequisite, essential, and core content statements as developed by the Michigan Department Education (MDE) and Next Generation Science Standards (NGSS). Areas of study will include: Principles of Scientific Inquiry, Structure of Atoms, Chemical Bonding and Reactions, Organic Molecules, Characteristics of Life, Cellular Structure and Function, Photosynthesis, and Cellular Respiration. Grading in this class will be based on traditional tests, labs, projects, take home practice, and daily classroom work.

- This course fulfills a third science credit as recognized by the Michigan Department of Education (MDE).

🌟 Program Opportunities:

- o Arts and Communication
- o Business, Management, Marketing and Technology
- o Engineering, Manufacturing and Industrial Technology
- o Health Sciences
- o Human Services
- o Natural Resources and Agri-Sciences

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0101CA/ HS0101CB	Biology Honors	9	1

- ☑ Pre-requisite: This course is recommended for students who successfully completed the 8th grade science IB curriculum at Owosso Middle School or with teacher recommendation. Students must possess above average reading and writing skills as well as strong science skills.

📖 Elective science credits.

This one-year study of biology will focus on the prerequisite, essential, core, and recommended content statements as developed by the Michigan Department of Education (MDE). Areas of study will include: Scientific Inquiry, The Chemistry of Life, The Cell, Genetics, History of Life, Animal Form and Function, and Ecology. Grading in this class will be more heavily influenced by tests and quizzes than the non-honors selection (laboratory exercises, homework and class-work).

- This course fulfills the Biology Requirement the MMC high school diploma

🌟 Program Opportunities:

- o Engineering, Manufacturing and Industrial Technology
- o Health Sciences
- o Natural Resources and Agri-Sciences

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0113CA/HS0113CB	Principles of Biomedical Engineering	9-12	1

- ☑ Prerequisite: Pass the previous year’s science course with an 80% or higher and/or instructor approval. Internet and computer access outside of school.

📖 Full year science elective credit.

✍ Take Note: Since this class is laboratory based, excellent attendance is required. Students that have poor attendance will find it difficult to be successful in this class.

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person’s life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

Program Opportunities:



- o Engineering, Manufacturing, and Industrial Technology
- o Health Sciences

- o Agri-Science and Natural Resource

INDIVIDUALS & SOCIETY DEPARTMENT

COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0101EA/HS0101EB	United States History	9	1

This class will focus on events from the 1880's to the present. The areas of study will include imperialism, WWI, the Roaring 20's, Great Depression, WWII, Cold War, Civil Rights Movement, Vietnam conflict and current events. There will be a focus on geography's effect on historical events. Throughout this course, students can expect to write research papers, analyze primary source documents in addition to regular coursework. This course fulfills the MMC requirements for US History and Geography.

- This course fulfills the MMC 9th Grade Social Studies Requirement.
- ✦ Program Opportunities:

COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0102EA/HS0102EB	United States History Honors	9	1

- ☑ Prerequisite: Students taking this course should have at least a B in their previous social studies class. Students must possess above average reading and writing skills as well as willingness for extra out of class work. 8th grade teacher recommendation is suggested.

This class will focus on events from the 1880's to the present. The areas of study will include imperialism, WWI, the Roaring 20's, Great Depression, WWII, Cold War, Civil Rights Movement, Vietnam conflict and current events. There will be a focus on geography's effect on historical events. Throughout this course, students can expect to write research papers, analyze primary source documents in addition to regular coursework. This course fulfills the MMC requirements for US History and Geography.

Much of this course will be to prepare students to take Advanced Placement U.S. History Students must possess above average reading and writing skills as well as Willingness for extra out of class work. Students must also select 2nd semester US History Honors 1833.


- ➔ Important Course Considerations: Honors courses differ from regular sections as the following will be expected.
 - ✓ Essays will be given on all tests
 - ✓ No word banks will be provided for key vocabulary
 - ✓ Students must read and write at or above grade level
 - ✓ Students will be expected to complete one individual project per marking period
- This course fulfills the MMC 9th Grade Social Studies Requirement. Program Opportunities:
 - o Arts and Communication
 - o Business, Management, Marketing, and Technology
 - o Engineering, Manufacturing, and Industrial Technology
 - o Health Sciences
 - o Human Services



 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0131DA/HS0131DB	Practical Psychology	9-12	1

Prerequisite: None.

This course is an introduction to psychology, with a focus on practical application of the topic. Throughout the course, students will learn how to apply psychology to their everyday lives, both in and out of the classroom. Focus will be placed on the following subsections of psychology: History—major theories, jobs; Cognitive—how our thoughts affect our behaviors and success/failure, consciousness, sleep & dreaming, memory; Developmental—parenting and lifespan; and Motivation, Emotion, Stress & Health—what drives our behavior, how emotions impact our actions, ways to identify and manage stress. The class will also introduce students to basic biology and research methods.

 Program Opportunities:

- o Arts and Communication
- o Business, Management, Marketing, and Technology
- o Health Sciences
- o Human Services


PHYSICAL EDUCATION/HEALTH DEPARTMENT

 COURSE NO. S1	COURSE NAME	GRADE LEVEL	CREDIT
HS0100NB	Health	9-12	1/2

Prerequisite: None.

This course covers personal health issues from nutrition and fitness to alcohol and drug education. Health skills such as decision making, goal setting, communication and conflict resolution are studied and practiced. Topics include: Nutrition and Physical Activity, Alcohol, Tobacco, and Other Drugs, Safety, Social and Emotional Health, Personal Health and Wellness, HIV Prevention and Sexuality Education. Students will learn basic information needed to make the healthiest lifestyle choices.

- This course can fulfill the MMC requirement for ½ credit of Health Education.

 Program Opportunities:

- o Health Sciences
- o Human Services

 COURSE NO. S1	COURSE NAME	GRADE LEVEL	CREDIT
HS0105IA	General Physical Education	9-10	1/2

Prerequisite: This class is for all students that are not participating in OHS athletics. Athletes should enroll in Strength Training and Conditioning.

Take Note: Students may enroll in two different physical education classes in the same semester with approval from Administration.

The following are some of the sports offered: Weight training, soccer, flag football, volleyball, floor hockey, basketball, team handball, bowling, golf, tennis, wrestling, softball, pool activities, archery, general games, cardiovascular exercise and various relays.

Students are encouraged to wear suitable clothing for all physical education activities (gym shorts or sweatpants, shirt, shoes and socks).

MME curriculum guidelines are followed in each physical education class that include: Health Related Fitness, Net/Wall, Target, Invasion, Striking/Fielding, and Rhythmic Activities.



→ Important Course Considerations:


- ✓ This class is required for graduation. Students enrolled in this class will participate in individual and group activities, team games, and contests.
- ✓ Skills learned in this class will be required in order to take Net/Team Sports. The student has many opportunities to express desirable qualities of the 6 pillars of character.
- This course fulfills the MMC physical education requirement.

Program Opportunities:

- o Arts and Communication
- o Business, Management, Marketing, and Technology
- o Engineering, Manufacturing, and Industrial Technology
- o Health Sciences
- o Human Services
- o Agri-Science and Natural Resources

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0113IA/HS0113IB	Aerobic Fitness	9-12	1/2 to 1

Prerequisite: None.

 Students can opt to take this course for a full year.


Physical Activities include: Pound, step-aerobics, Therabands, Zumba, fitness 300, swimming, yoga, walking and various aerobic activities. Students are encouraged to participate in daily aerobic activities and to wear suitable clothing for movement.

This class is designed for students that would like to set personal goals and want to work daily on improving levels of physical fitness including cardiovascular health, heart rate, flexibility, blood pressure, strength and endurance.

- This course fulfills the MMC Physical Education Requirement
- ★ Program Opportunities:
 - o Arts and Communication
 - o Business, Management, Marketing and Technology
 - o Engineering, Manufacturing, and Industrial Technology
 - o Health Sciences
 - o Human Services
 - o Agri-Science and Natural Resources

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0108IA/HS0108IB	Girl's Advanced Strength Training and Conditioning	9-12	1/2 to 1

Prerequisite: Current OHS Athlete or Teacher/Coach/AD recommendation (including OMS recommendation). Must have earned an A in general PE or STC to take this course.

 Take Note: One full credit can be earned if taken both semesters (entire year). Students are expected to work above and beyond the normal physical education expectations. This is an advanced class. Students are expected to work daily at an advanced level.

The class is an elective course designed for students who want to improve on strength, conditioning and their athletic skills. Emphasis will include: circuit training, free weights, Bigger, Faster, Stronger training circuit, plyometric agility drills, sport techniques and school sport activities of an individual and team nature. Safety is emphasized. Students are encouraged to wear suitable clothing for physical education activities (gym shorts, t-shirt, shoes and socks). MME curriculum guidelines are followed in each physical education class that include:

Health Related Fitness, Net/Wall, Target, Invasion, Striking/Fielding, and Rhythmic Activities. Students may select this class more than one time.

- This course fulfills the MMC physical education requirement.
- ✦ Program Opportunities:
 - o Arts and Communication
 - o Business, Management, Marketing, and Technology
 - o Engineering, Manufacturing, and Industrial Technology
 - o Health Sciences
 - o Human Services
 - o Agri-Science and Natural Resources

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0100IA/HS0100IB	Boy's Advanced Strength Training and Conditioning 9-12		1/2 to 1

Prerequisite: Current OHS Athlete or Teacher/Coach/AD recommendation (including OMS recommendation). Must have earned an A in general PE or STC to take this course.



- Take Note:
- ✓ Students may enroll in two different physical education classes in the same semester with approval from Administration.
 - ✓ One full credit can be earned if taken both semesters (entire year).
 - ✓ This is an advanced class: students are expected to work daily at an advanced level, above and beyond the normal physical education expectations.

The class is an elective course designed for students who want to improve on strength, conditioning and their athletic skills. Emphasis will include: circuit training, free weights, Bigger, Faster, Stronger training circuit, plyometric agility drills, sport techniques and school sport activities of an individual and team nature. Safety is emphasized. Students are encouraged to wear suitable clothing for physical education activities (gym shorts, t-shirt, shoes and socks). MME curriculum guidelines are followed in each physical education class that include: Health Related Fitness and Rhythmic Activities. Students may select this class more than one time.

- This course fulfills the MMC physical education requirement.
- ✦ Program Opportunities:
 - o Arts and Communication
 - o Business, Management, Marketing, and Technology
 - o Engineering, Manufacturing, and Industrial Technology
 - o Health Sciences
 - o Human Services
 - o Agri-Science and Natural Resources

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0107IA/HS0107IB	Strength Training & Conditioning (STC)	9-12	1/2 to 1

Prerequisite: This class is for all students that are or will be OHS athletes including incoming freshmen.



Students can opt to take this course for a full year.



Take Note: Students may enroll in two different physical education classes in the same semester with approval from Administration.

Athletes are strongly encouraged to select this course. Activities will include calisthenics, cardiovascular exercise, agility drills, isometrics, swimming, sport-techniques, physical fitness-oriented activities, as well as lifetime fitness



activities. Students may elect to repeat this class. Safety is emphasized. Students are encouraged to wear suitable clothing for physical education activities (gym shorts, t-shirt, shoes and socks).

MME curriculum guidelines are followed in each physical education class including: Health Related Fitness and Rhythmic Activities.

- This course fulfills the MMC physical education requirement.


✦ Program Opportunities:

- o Arts and Communication
- o Business, Management, Marketing, and Technology
- o Engineering, Manufacturing, and Industrial Technology
- o Health Sciences
- o Human Services
- o Agri-Science and Natural Resources

 Course No. S1/S2	Course Name	Grade Level	Credit
HS0114IA/HS0114IB	Advanced Physical Education	9-12	½ to 1

- ☑ Prerequisite: Students must have successfully completed 1 semester of general physical education. Must have earned an A in general PE or STC to take this course.

 Students can opt to take this course for a full year.

 Take Note: Students may enroll in two different physical education classes in the same semester with approval from Administration.

This is an elective course designed for the student who wants additional work in tennis, badminton, volleyball, table tennis, basketball, flag football, soccer, speedball, floor hockey, swimming, team handball, softball, frisbee games, and sport activities. Safety is emphasized. Students are encouraged to wear suitable clothing for physical education activities (gym shorts, t-shirt, shoes and socks).

Students may elect to repeat this class as long as they have passed the course previously.

MME curriculum guidelines are followed in each physical education class that include: Health Related Fitness, Net/Wall, Target, Invasion, Striking/Fielding, and Rhythmic Activities.

- This course fulfills the MMC physical education requirement.

✦ Program Opportunities:

- o Arts and Communication
- o Business, Management, Marketing and Technology
- o Engineering, Manufacturing, and Industrial Technology
- o Health Sciences
- o Human Services
- o Natural Resources & Agri – Science

LANGUAGE ACQUISITION

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0100SA/HS0100SB	Spanish I	9-12	1

- ☑ Prerequisite: Students must have good study skills and a good work ethic to succeed in language acquisition.

Course includes speaking, listening, reading, writing, and culture. This course introduces basic Spanish vocabulary and grammar topics, including present-tense verb conjugations, as well as culture and geography. Students will work on reading, writing, listening, and speaking in Spanish. Students will develop a better understanding of English as they compare it with Spanish.



- This course can fulfill the MMC visual/performing/applied arts requirement.
- ⊛ Program Opportunities:
 - o Arts and Communication
 - o Human Services
 - o Business, Marketing, Manufacturing and Technology
 - o Health Sciences
 - o Engineering, Manufacturing and Technology
 - o Agri-Science and Natural Resources

INSTRUMENTAL MUSIC DEPARTMENT

COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0121JA/HS0121JB	Freshman Band	9	1

- ☑ Prerequisite: Experience playing a band instrument.

This is an entry level course for the high school band program. Intermediate musical and marching skills are taught. As inquiring learners and thinkers, students will explore different cultures, techniques and styles through music study and performance. This balanced approach to music education will enable students to become open-minded, knowledgeable, caring individuals and musicians. Public performances, parades, festivals and practices are part of the requirements of this class and will be graded. These events will help the students learn to take risks as musicians and leaders. Principled practice and reflection on every performance will also be expected. Extra time spent on pep band and solo and ensemble work will be considered when determining grades.

- Credit for this course is also shared with the marching band.

- ⊛ Program Opportunities:
 - o Arts and Communication
 - o Human Services

COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0123JA/HS0123JB	Jazz Band	9-12	1

- ☑ Prerequisite: Approval of directors and audition. Must be enrolled in Freshman, Concert or Symphony Bands at the same time. Instruments used in the Jazz Band are: Trumpet, Saxophone (any type), Trombone, Drums, Guitar, Bass Guitar and Keyboard.

The Owosso Jazz Band Program actively promotes the harmonic, melodic and stylistic elements of the jazz idiom as they have been noted or recorded by historically significant composers, artists or arrangers. Swing, bebop, blues, Latin, rock and funk styles will be studied according to their influence on the jazz art form. As inquiring learners and thinkers, students will explore different cultures, techniques and styles through the study of advanced band literature. This balanced approach to music education will enable students to become open-minded, knowledgeable, caring individuals and musicians. Public performances, parades, festivals and practices are part of the requirements of this class and will be graded. These events will help the students learn to take risks as musicians and leaders. Principled practice and reflection on every performance will also be expected.

- This course can fulfill the MMC visual/performing/applied arts requirement.

- ⊛ Program Opportunities:
 - o Arts and Communication
 - o Human Services

VOCAL MUSIC DEPARTMENT

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0128QA/HS0128QB	Bel Canto	9	1


Prerequisite: Entry Level Vocal Group for 9th grade Treble Clef Singers.

This is a performing ensemble for treble voices incorporating the development of vocal technique, musical style and music theory. As inquiring learners and thinkers, students will explore different cultures, techniques and styles through the study of primary choral literature. This balanced approach to music education will enable students to become open-minded, knowledgeable, caring individuals and musicians. A variety of music styles are performed.

→ Important Course Considerations:

- ✓ Attendance at all dress rehearsals and performances is required.
- ✓ Required performances include: The Holiday Concert, Fall Concert, Choral Festival, Winter Concert, Choral Cabaret and Graduation.

■ This course can fulfill the MMC visual/performing/applied arts requirement, or the remaining year of the foreign language requirement.

-  Program Opportunities:
- o Arts and Communication
 - o Human Services


 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0133JA/HS0133JB	Varsity Choir	9-12	1

Prerequisite: Vocal group for Bass Clef Singers.

This is a performing ensemble for all bass clef voices incorporating the development of vocal technique, musical style and music theory. As inquiring learners and thinkers, students will explore different cultures, techniques and styles through the study of primary choral literature. This balanced approach to music education will enable students to become open-minded, knowledgeable, caring individuals and musicians. Individual practice, a strong sense of discipline and independence will be expected of students in this class.

→ Important Course Considerations:

- ✓ Attendance at all dress rehearsals and performances is required.
- ✓ Required performances include: The Holiday Concert, Fall Concert, Choral Festival, Winter Concert, Choral Cabaret and Graduation. A variety of music styles are performed.

-  Program Opportunities:
- o Arts and Communication
 - o Human Services

ART DEPARTMENT

COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0114JA/HS0114JB	Art I	9-12	1

Prerequisite: None.

No course fees.

This class is an introduction to various two-dimensional and three-dimensional art media (pencil, pen and ink, colored pencils, markers, pastels, watercolor paints, acrylics, clay, acrylics, printmaking, etc.). Students will gain knowledge and practice in several basic-drawing elements and principles (basic shapes and forms, shading, texture, composition, design, overlapping, perspective, creativity, animals, portraits, figure drawing, color theory, etc.) to increase their ability to create a quality work of art.

Throughout the various projects and exercises students will increase technical as well as creative skills. A basic background of art history is included to develop art appreciation.

→ Important Course Considerations: All students are required to participate in the annual Spring Art Show.

- This course can fulfill the MMC visual/performing/applied arts requirement.

⊕ Program Opportunities:

- o Arts and Communication
- o Business, Management, Marketing, and Technology
- o Engineering, Manufacturing, and Industrial Technology
- o Human Services

COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0115JA/HS0115JB	Art II	10-12	1

Prerequisite: Successful completion Art I. Or 8th grade recommendation to test out of Art I.

No course fees.

In this class the students continue to refine and do more advanced work in the various two-dimensional and three-dimensional media: pencil, ink, colored pencil, markers, pastel, charcoal, ceramics, printmaking, watercolor and acrylic, etc. Through various technical and creative projects, and art history, the students learn to continue to use the elements and principles of design and to take pride in their work and strive for excellence. They will learn to use color theories such as complementary, analogous, and triadic color schemes and do advanced work with design. Emphasis is placed on quality, self-expression, self-discipline, and creativity.

Important Course Considerations: All students are required to participate in the annual Spring Art Show.

- This course can fulfill the MMC visual/performing/applied arts requirement.

⊕ Program Opportunities:

- o Arts and Communication
- o Business, Management, Marketing, and Technology
- o Engineering, Manufacturing, and Industrial Technology
- o Human Services



SPECIAL EDUCATION DEPARTMENT

SE MATHEMATICS

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS9100GA/HS9100GB	Algebra One	9	1

Prerequisite: Students may only enroll in this course if they have an IEPC on file.

Students entering this class have an Individualized Education Plan (IEP) on file and work better in a **small group setting**. Curriculum meets the MDE requirement for those Special Education students **earning a high school diploma**.

The class is application motivated and begins with a unit on algebraic symbols, order of operations, probability and relative frequency. Students will study first-degree equations, inequalities, linear functions and inequalities. Other topics include: Exponents, Pythagorean theorem, polynomials, including operations with polynomials, factoring and perfect squares; systems of linear equations including weighted averages and inequalities; quadratic equations and the quadratic formula are used.

- This course fulfills the MMC algebra one requirement.

 Program Opportunities:

- | | |
|---|--|
| <ul style="list-style-type: none"> o Agri-Science and Natural Resources o Arts and Communication o Business, Management, Marketing, and Technology | <ul style="list-style-type: none"> o Engineering, Manufacturing, and Industrial Technology o Health Sciences o Human Services |
|---|--|

SE LANGUAGE & LITERATURE

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS9102AA/HS9102AB	English	9-12	1

Prerequisite: Students may only enroll in this course if they have an IEPC on file.

Students entering this class have an Individualized Education Plan (IEP) on file and work better in a **small group setting**. Curriculum meets the MDE for those Special Education students that will be **earning a high school diploma**.

Students will cover in the smaller classroom setting the following over the four years of high school:

- 9th Grade:** This is the first high school level English class that covers a broad range of writing and literature skills. Students will review the writing process, write several varieties of essays, learn the fundamentals of literary terms and work with assorted literature. Grammar and vocabulary are also addressed.
- 10th Grade:** Students will be asked to take an integrated and conceptual approach to the study of the various genres, forms and skills found in language, literature, grammar and composition. Students will review the writing process and write several varieties of essays.
- 11th Grade:** Focus on literature from many world venues beyond the US. It is primarily a composition and literature class. Writing includes a variety of modes. Literature includes a variety of writing forms written by contemporary and classic international authors.



12th Grade: The goal for English 12 is to refine, apply, and extend the foundation of knowledge, skills, and strategies developed in English Language Arts 9-11.

☛ **Program Opportunities:**

- o Agri-Science and Natural Resources
- o Arts and Communication
- o Business, Management, Marketing, and Technology
- o Engineering, Manufacturing, and Industrial Technology
- o Health Sciences
- o Human Services

SE SCIENCE

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS9000CA/HS9000CB	Science	9-12	1

☑ Prerequisite: Students may only enroll in this course if they have an IEPC on file.

Students entering this class have an Individualized Education Plan (IEP) on file and work better in a **small group setting**. Curriculum meets the MDE requirement for those Special Education students **earning a high school diploma**.

The study of biology will focus on the prerequisite essential and core content statements as developed by the MDE. Study will include: The chemistry of life, genetics, evolution and biodiversity, interdependence of living systems and the environment, and scientific inquiry.

- This course completes the biology credit required for a diploma by the MDE.

This course delves into both theoretical and experimental chemistry and thus includes labs. Topics include conversions, units, periodicity, gas laws, stoichiometry, thermo-chemistry, bonding, polarity, phase changes, reaction rates, equilibrium, solutions, oxidation-reduction, acid-base theories, nuclear chemistry and organic chemistry.

- This course is designed to meet the high school graduation requirement for chemistry or biology.
- This course fulfills the MMC science requirements.

☛ **Program Opportunities:**

- o Agri-Science and Natural Resources
- o Engineering, Manufacturing, and Industrial Technology
- o Health Sciences

SE INDIVIDUALS & SOCIETY

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS9100DA/HS9100DB	United States History	9	1

☑ Prerequisite: Students may only enroll in this course if they have an IEPC on file.

Students entering this class have an Individualized Education Plan (IEP) on file and work better in a **small group setting**. Curriculum meets the MDE requirement for those Special Education students **earning a high school diploma**.

This class will focus on events from the 1880's to the present. The areas of study will include imperialism, WWI, the Roaring 20's, Great Depression, WWII, Cold War, Civil Rights Movement, Vietnam conflict and current events. There will be a focus on geography's effect on historical events. Throughout this course, students can expect to



write research papers, analyze primary source documents in addition to regular course work. This course fulfills the MMC requirements for US History and Geography.

- This course fulfills the MMC 9th grade social studies requirement.
- ✦ Program Opportunities:
 - o Agri-Science and Natural Resources
 - o Arts and Communication
 - o Business, Management, Marketing, and Technology
 - o Engineering, Manufacturing, and Industrial Technology
 - o Health Sciences
 - o Human Services

SE ELECTIVES

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS9102QA/HS9102QB	Study Skills	9-12	1

☑ Prerequisite: Students may only enroll in this course if they have an IEPC on file.

 Take Note: The IEP process will determine placement in this elective course.

Students will learn various strategies for increasing their learning in their general education courses to complete assignments and increase test scores. Students' learning strengths and weaknesses are identified to enable improvement academically and to better self-determine and advocate what they need to be successful in the classroom. Job exploration and post-secondary goals for career training is also emphasized.

- ✦ Program Opportunities:
 - o Agri-Science and Natural Resources
 - o Arts and Communication
 - o Business, Management, Marketing, and Technology
 - o Engineering, Manufacturing, and Industrial Technology
 - o Health Sciences
 - o Human Services

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS9105QA/HS9105QB	Learning Through Film	9-12	1

☑ Prerequisite: Students may only enroll in this course if they have an IEPC on file.

 This class will be offered every other year.

Learning Through Film is an elective credit for students with an I.E.P. In this class films are chosen to fit different themes that deal with current events, historical perspectives, society and the IB propensities. The class is based around discussion, projects and weekly rating of film. Students are graded on participation and quality of work.

- ✦ Program Opportunities:
 - o Agri-Science and Natural Resources
 - o Arts and Communication
 - o Business, Management, Marketing, and Technology
 - o Engineering, Manufacturing, and Industrial Technology
 - o Health Sciences
 - o Human Services

CAREER AND TECHNICAL EDUCATION


Owosso High School's Career and Technical Education programs offer high quality career focused opportunities for all students to help them become career ready. Program opportunities include: career exploration, work-based learning, real-world experiences and projects, industry-recognized credentials, and technical, leadership, and personal skill development. Owosso Public Schools is the District of Opportunities. We are proud to offer




rigorous Career and Technical Education programs that equip students with the knowledge and skills to succeed academically, in the workforce, and in life. Skills for Success being with Career and Technical Education programs at OHS!

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0115HA	Introduction to Careers & Life Skills	9	.50

Prerequisite: None

 Half year elective credit.

In this career technical education (CTE) introductory course, students will explore many career fields explore their interests, values and standards for success. Students will have an opportunity to be coached on workplace preparation, such as: resume writing, job applications, and interview preparation. Students will also learn about basic life skills such as: personal finance, self-care, sewing, etc.


 Program Opportunities:


o [Refer to Appendix A](#) for current core credits available through CTE programming

AGRISCIENCE PROGRAM

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0408QA / HS0409QB	Zoology & Agricultural Systems	9-11	1

Prerequisite: Successful completion of previous year's science course with a grade of C or better grade in both semesters.

 Full year elective credit.


 Expectations: Students will be required to work outside through the school year. Every student enrolled in an agriscience class is expected to join as a member of the Owosso Public Schools FFA chapter. Students will be required to participate in FFA events and agriscience activities outside of the normal class day.

Zoology & Agricultural Systems is the first course in the Agriculture, Agricultural Operations and Related Science Program at OHS. The major focus of Zoology & Agricultural Systems is on the biology of animals and the study of animal contributions to the agricultural industry. Through hands-on experiences and projects, students will learn and apply foundation skills within real-world agricultural contexts. Students will learn about safety, animal anatomy and physiology, domestic animal production, and animal health and nutrition in a hands-on learning environment. This course is centered on an extensive laboratory component to connect the ideas of animal science with agricultural applications and other curricular areas, including written and oral skills.

All Agriscience students will be expected to participate in the highly acclaimed student organization, FFA, where they will learn additional leadership and career readiness skills.

→ Important Course Considerations:

- ✓ All Agriscience Program students are required to participate in the student organization, National FFA Organization (FFA), where they will learn additional leadership and career readiness skills. Students will be required to participate in a minimum of two (2) "supervised after school activities" per semester outside of the normal class day.

 Program Opportunities:

o FFA learning opportunities


o [Refer to Appendix A](#) for current core credits available through CTE programming

o College Credit Available

BUSINESS PROGRAM

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0112HA/HS0113HB HS0114HA/HS0114HB	Sports and Entertainment Management/Marketing I/II	9-12	1

Prerequisite: Interest in a business career.


 Full year elective credit.

This course is an analysis of effective management strategies and the body of knowledge associated with pursuing a career in sports and entertainment management. The course introduces the student to sports management and entertainment career opportunities and to sports and entertainment principles as they apply to management, leadership style, communication, motivation and entrepreneurship. Students will gain an understanding of how marketing impacts our economy, the decisions they make as consumers, and how companies try to influence individual purchase decisions related to these industries. Students will participate in interactive lectures, discussions, application projects, and activities including gaining knowledge and registration as a sports official.

Sports and Entertainment Marketing will prepare students for advanced studies in marketing/management and create an inside look at how and why the sports and entertainment industry operates. Much of this course's work will be accomplished with student teams.

→ Important Course Considerations:

- ✓ All Business Program students will be encouraged to participate in the student organization, Business Professionals of America (BPA), where they will learn additional leadership and career readiness skills. Students will be required to participate in a minimum of two (2) "supervised after school activities" per semester outside of the normal class day. Working to attain Industry Credentials is required for this program.
- ✓ This course will operate with the same expectations and materials similar to a college-level course in a Sports and Entertainment Management/Marketing Program.
- ✓ Work based learning (guest speakers, field trips, and job shadow opportunities).

 Program Opportunities:


o Business Professionals of America (BPA) student organization (technical, leadership, and community service opportunities)

o [Refer to Appendix A](#) for current core credits available through CTE programming
o College Credit Available

CONSTRUCTION TRADES PROGRAM

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0404QA/ HS0404QB	Introduction to Shop Tools	9	.50

Prerequisite: None.

 Half year elective credit.

Introduction to Shop Tools is a 9th grade course that focuses on basic shop safety, introduction to measurement, use of basic hand tools, and safe operation of basic power tools that will be utilized in more advanced CTE courses,

including Woodworking and Construction. Upon verification of proficiency in safety and proper tool usage, students may be given the opportunity for hands-on experiences in lab areas to complete small projects that show the skills they have learned.

This course will operate as an entry level course that will help 9th grade students get ready to enter into future CTE programs with more advanced topics and tools.

→ Important Course Considerations:

- ✓ All Wood Technology Program students will be encouraged to participate in the student organizations, Michigan Industrial & Technology Education Society (MITES) where they will learn additional leadership and career readiness skills. Students will be required to participate in a minimum of two (2) “supervised after school activities” outside of the normal class day.

⊕ Program Opportunities:

- o MITES o [Refer to Appendix A](#) for current core credits available through CTE programming
- o Engineering Arts Program

CULINARY ARTS PROGRAM

COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0420QA/ HS0421QB	Introduction to Kitchen Tools	9	.50

Prerequisite: None.

Half year elective credit.

Introduction to Kitchen Tools is an introductory course that focuses on basic kitchen and food safety, introduction to measurement, use of basic kitchen tools, and the safe and efficient running of kitchen equipment that will be utilized in more advanced CTE courses. Upon verification of proficiency in safety and proper tool usage, students may be given the opportunity for hands-on experiences in the kitchen lab area to complete small projects that show the skills they have learned.

This course will operate as an entry level course that will help 9th grade students get ready to enter into future CTE programs with more advanced topics and tools.

→ Important Course Considerations:

- ✓ All Culinary Arts Program students will be encouraged to participate in the student organizations, SkillsUSA® and Michigan Industrial & Technology Education Society (MITES) where they will learn additional leadership and career readiness skills. Students will be required to participate in a minimum of two (2) “supervised after school activities” outside of the normal class day.

⊕ Program Opportunities:

- o MITES o Engineering Arts Program
- o Refer to Appendix A for current core credits available through CTE programming

ENGINEERING & MANUFACTURING PROGRAM

COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0998QA/ HS0998QB	STEM Exploration	9-12	1



☑ Prerequisite: Successful completion of the previous year’s science course with a grade of C average or better.

☑ Corequisite: Algebra One.

📖 Full year elective credit.

STEM Explorations is an introductory course for students to learn about STEM (Science, Technology, Engineering, and Math) careers. Topics will be introductory in nature and will be covered by doing short projects. Example of topics included in the course: Introduction to Electrical Circuits, Introduction to CAD, Introduction to Coding, Simple Machines, and Introduction to Robotics, and The Design Process. Students will plan, design and create while doing hands-on, real-world challenges and projects.

→ Important Course Considerations:

- ✓ All Engineering Arts Program students will be encouraged to participate in the student organizations, SkillsUSA® and Michigan Industrial & Technology Education Society (MITES) where they will learn additional leadership and career readiness skills. Students will be required to participate in a minimum of two (2) “supervised after school activities” per semester outside of the normal class day.

⊕ Program Opportunities:

- o SkillsUSA®
- o MITES

- o Refer to Appendix A for current core credits available through CTE programming
- o College Credit Available

WOOD TECHNOLOGY PROGRAM

 COURSE NO. S1/S2	COURSE NAME	GRADE LEVEL	CREDIT
HS0404QA/ HS0405QB	Introduction to Shop Tools	9	.50

☑ Prerequisite: None.

📖 Half year elective credit.

Introduction to Shop Tools is an introductory course that focuses on basic shop safety, introduction to measurement, use of basic hand tools, and safe operation of basic power tools that will be utilized in more advanced CTE courses, including Woodworking and Construction. Upon verification of proficiency in safety and proper tool usage, students may be given the opportunity for hands-on experiences in lab areas to complete small projects that show the skills they have learned.

This course will operate as an entry level course that will help 9th grade students get ready to enter into future CTE programs with more advanced topics and tools.

→ Important Course Considerations:

- ✓ All Wood Technology Program students will be encouraged to participate in the student organizations, Michigan Industrial & Technology Education Society (MITES) where they will learn additional leadership and career readiness skills. Students will be required to participate in a minimum of two (2) “supervised after school activities” outside of the normal class day.

⊕ Program Opportunities:

- o MITES

- o [Refer to Appendix A](#) for current core credits



APPENDIX A: CTE CREDITS AVAILABLE

OHS CAREER AND TECHNICAL EDUCATION (CTE) ACADEMIC CREDIT OPTIONS IN 9th GRADE

CTE Course	Course Sequence	English Credits ^{1,3}	Math Credits		Science Credits		Visual, Performing Arts, & Applied Arts Credit	2 nd Year of World Language Credit ³	Online Experience
			4 th Year Math ^{1,2}	Algebra II ³	Chemistry, Physics, Anatomy, or Agri. Science ³	3 rd Sci Other Science ³			
Introduction to Careers & Life Skills	0						X		X
Zoology & Agricultural Systems	1		X				X		X
Botany & Natural Resources ⁵	2		X		X – Agri. Sci.	X	X	X	X
Agricultural Leadership ^(even years) ⁵	3		X			X	X	X	X
Agricultural Internship ^(on-site) ^{4,5}	4		X			X	X	X	X
Sports & Entertainment Marketing I/II ⁵	1/2		X			X	X	X	X
Marketing: Store Operations I/II ^{4,5}	2/3		X			X	X	X	X
Business & Marketing Capstone ^{4,5}	4		X			X	X	X	X
Introduction to Shop Tools	1						X		X
Home Improvement	2		X				X		X
Construction Trades ^{4,5}	3		X			X	X	X	X
Advanced Construction ^{4,5}	4		X			X	X	X	X
Construction Crew Leader ^{4,5}	4		X			X	X	X	X
Culinary I	1		X				X		X
Culinary II ⁵	2	X	X				X	X	X
Sous Chef ⁵	3		X				X	X	X
Chef de Cuisine ⁵	4		X				X	X	X



OHS CAREER AND TECHNICAL EDUCATION (CTE) ACADEMIC CREDIT OPTIONS in 9th GRADE (continued)

CTE Course	Course Sequence	English 12 Credits ^{1,3}	Math Credits		Science Credits		Visual, Performing Arts, & Applied Arts Credit	2 nd Year of World Language Credit ³	Online Experience
			4 th Year Math ^{1,2}	Algebra II ³	Chemistry, Physics, Anatomy, or Agri. Science ³	3 rd Sci Other Science ³			
Careers in Education	1		X				X	X	X
Student Teacher ^{4,5}	2		X						
STEM Explorations	1		X				X		X
Intro to Engineering Design ⁵	2		X				X	X	X
Principles of Engineering ⁵	3		X				X	X	X
Engineering Capstone ^{4,5}	4		X				X	X	X
Introduction to Shop Tools	1						X		X
Wood Technology I	2		X				X		X
Wood Technology II ⁵	3		X				X	X	X
Advanced Wood Technology ⁵	4		X				X	X	X
NOTES									
1 → Must take course in 12 th grade year					4 → 2-hour block				
2 → Must have already passed Algebra II					5 → Must be approved by instructor				
3 → Must be a completer of an approved CTE Program additional credits					0 → Sequence 0, is an introduction to CTE course and can be taken freshman year as an exploratory course.				

Glossary

Academic Program – Students, through Xello, explore course curriculum, interests, and possible employment, select courses that match over a 2-3 year period. This cluster of courses allows students to experience and learn about a specific major interest in the career field.

Accommodated – Tests, quizzes and assignments that are given various assistive devices or tools to provide the student another form of demonstrating mastery of the subject matter or unit of study.

Articulated Credit – Process of granting college credit for high school coursework. The classes are taken at your high school or your school district's technical education center. CTE programs must have some kind of agreement between their program and a post-secondary school.

Advanced Placement (AP) – A program provided to students through the curriculum developed to challenge students looking to accelerate their learning and challenge them as a student. Courses are designed to be taught at college-level thinking and analyzing, allowing students to broaden their knowledge, as well as potentially earning college credit. Advanced Placement courses allow students to take an end of the year exam which could provide the student with college credits based on the end of the year exam score.

Capstone – A capstone project is a multifaceted assignment that serves as a culminating academic and intellectual experience for students at the end of an academic program or learning-pathway experience. While similar in some ways to a college thesis, capstone projects may take a wide variety of forms, but most are long-term investigative projects that culminate in a final product, presentation, or performance.

Career Pathways – Integrated collection of programs and services intended to develop students' core academic, technical and employability skills; provide them with continuous education, training; and place them in high-demand, high-opportunity jobs. These are the six pathways recognized: Arts and Communication, Business, Management, Marketing & Technology, Engineering/Manufacturing and Industrial Technology, Agri-Science and Natural Resources, Human Services, Health Sciences.

Career Technical Education (CTE) – A term that refers to an education pathway that provides students with the academic, technical, and real-world knowledge, skills and experience they need to be prepared for a variety of career options.

College – Any institution providing training beyond high school toward a credential or degree that leads to employment or a career of interest.

Credit – Students have the opportunity to take 7 courses each semester, with each course earning at least 0.50 points, known as credits. To receive an Owosso High School diploma, students must accumulate a total of 26 credits and fulfill the Michigan Merit Curriculum requirements, in addition to meeting the Owosso Public School requirements.

Credit Recovery – Students can recover credit toward their high school diploma if they have gone below the required amount toward graduation. On campus Summer School Credit Recovery courses are available to students seeking to recover core courses they did not successfully complete. Speak with the counselor about arranging this class as it does require counselor or administrator approval.

Dual Enrollment – Students in 10th through 12th grades can access college course work and earn college credit through this program. Eligibility to take these courses depends on meeting benchmarks on the state assessment tests called the Michigan Merit Curriculum or by taking the PSAT test in grades 9 and 10.

Educational Development Plan (EDP) – Using their Xello account students create their EDP beginning in the 7th grade. An EDP is required by the Michigan Merit Curriculum or by taking the PSAT test in grades 9 and 10. EDP's

are a planning tool for students to outline their curriculum plan throughout high school, plan for college, employment exploration and career/job projections of employment.

Eligibility – this is a criterion necessary to be able to take a class or begin a program. Another word for this would be “requirement”. There are many programs at the high school in the area of classes or curriculum that have “requirements” so it is important that students and parents read the course description carefully before deciding to take a class.

Honors Course – These are identified as courses like Advanced Placement (AP) and International Baccalaureate (IB) courses, assumed to be taught at a higher level than traditional high school courses, completing work at the college level, and typically designed for students in grades 11 and 12.

International Baccalaureate Program – One of the three types of “advanced” classes (the other two being Honors and Advanced Placement [AP] classes), the IB program is of the highest level of difficulty, partly because it is a systematic program of study—with all classes taught at the highest level. A truly international program of excellence, IB students learn how to ask challenging questions, develop a strong sense of their own identity and culture, and gain the ability to communicate and understand people for other countries and cultures.

National FFA Organization (FFA) – National Future Farmers of America Organization is the premier youth organization preparing members for leadership and careers in the science, business and technology of agriculture.

Online or Hybrid Courses – Students can take their course over the internet. The instructor works with the students through computer and internet access. These courses require students to have study habits such as self-motivated, independently able to work on materials without an instructor present every day. Student can set up a time to work on the materials and get assignments done without the instructor there in the classroom. These are very challenging courses due to the fact that the students have to be self-disciplined to work on the assignments every day. Students who procrastinate should not consider online courses.

Post-secondary Education – Any education and training toward job skills and employment that occurs beyond high school graduation.

Qualifying Score – Many times programs require students to have taken a test or exam to see if they are able to successfully complete a class. The qualifying score is an assessment of the student’s skills indicating they have the preliminary skills to take a class and be able to successfully complete the class.

Reach Higher OHS – This is the online website, www.ReachHigherOHS.org, created for students, parents, and the Owosso community to provide information on high school programming, resources in our community, opportunities for students as well as educating the parents and community on the wealth of information students and parents need to be prepared for a successful post-secondary experience and entry in a career or job market or the military.

Secondary Education – Starts upon completion of basic education (K-5), it begins with grades 6-8. Education at the 9th to 12th grade levels shows more subjects may be dropped, and an increase in specializing into programs of study occurs. The educational focus is varied according to future direction of the student, and their interests.

Special Programs – There are many new instructional experiences available to students through Owosso High School. The special programs involve various exploratory experiences as well as dual enrollment opportunities to earn college credit or even an associate degree in the 5th year of Early Middle College education. Students need to look carefully at the curriculum guide to see the various programs of study they can access in the 4 years they are at Owosso High School.

Testing Out – Program that allows students to take the final exam of a specific core curriculum to see if they can move to the next grade level subject and accelerate through the curriculum. Students must take the exam on a specific day in August and must reach at least 77% mastery of the exam to receive the waiver to take the course.

Transcript – Official record indicating the courses taken and the grade the student received in that course along with the year the course was taken and at what school it was taken. Students use this document as a record of the credits they have earned toward a diploma and also to submit with the college application to demonstrate to the colleges their ability to do college level work.

Trojan Days – Those dates that are identified for students to enroll in Owosso High School for that school year. Usually these days are in the 2nd and 3rd week of August each year.

Weighted Grade – Grades earned in the advanced placement courses are weighted at a slightly higher scale than the 4.0 traditional grading scale.

Xello – Online software program providing students and parents with the ability to explore learning style, career exploration, resume development, test preparation, high school planning, and post-secondary planning. Parents also have a login portal of your own to access their child’s Education Development Plan (EDP). Parents may also choose to create an EDP for themselves to explore their own opportunities.

