

# Manchester Panthers



Curriculum

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**Manchester High School** 437 W. Nimisila Rd. New Franklin, OH 44319 330-882-3291 [www.panthercountry.org](http://www.panthercountry.org)

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Mr. Scott Ross, Principal

Message from the Principal

Dear Students & Parents/Guardians,

We have worked hard on this Curriculum Guide so that students can make informed choices about the courses they take in high school. These choices form the paths to graduation and their goals beyond their four years at MHS. We focus on the “3 E’s” with our students in hopes they graduate with a plan to be employed, enrolled or enlisted.

MHS is proud of our experienced, dedicated teaching staff who have always done an excellent job preparing students for life after high school. In addition to our rigorous college prep curriculum, students can choose from 5 AP courses, earn an Honors Diploma and pursue many other graduation seals. Additionally, there are more options than ever for our students to explore their interests with electives, College Credit Plus, Credit Flex, selected online courses, or vocational programs.

We encourage conversations with students to get to know their interests, short- and long-term goals, talents, and skills so they can plan accordingly and select the path that is right for them. We also encourage students to expand their experiences and challenge themselves in order to develop necessary skills, learning styles, work habits, and tools to overcome obstacles. While grades are certainly important, it is these traits that will greatly improve their chances for success later in life.

For all of these reasons, please consider course selection very carefully. Pay close attention to graduation requirements, required classes for MHS credits, athletic eligibility, and fee obligations. Once courses have been selected, changes will only be made under extenuating circumstances.

The scheduling process will begin in February, with presentations and student meetings. Our counselors and administrators are available if you have questions or need help in any way.

Sincerely,

Scott Ross, Principal

Manchester High School



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# Manchester High School - Graduation Requirements

A total of **21 credits** to include the following:

English .....	4 Credits
Mathematics .....	4 Credits
(Must include Algebra II or equivalent of Algebra II)	
Science .....	3 Credits
- Life Science (General or Accelerated Biology)	
- Physical Science (Physical Science, Chemistry or Physics)	
- Advanced Study (A.P. Chemistry, Chemistry, Physics, A.P. Physics I or Environmental Science)	
Social Studies .....	3 Credits
- U.S. History	
- World History	
- Principles of Democracy	
Basic Communication Skills .....	1/2 Credit
Career Exploration or Personal Finance (Class of 2023, 2024, 2025).....	1/2 Credit
- Class of 2026: Personal Finance Only	
Health .....	1/2 Credit
Physical Education (2 semesters) or P.E. Waiver.....	1 Credit
Electives* .....	Remainder of credits
*One (1) Credit of Elective must be in <b><u>one</u></b> of the following areas:	
- Business	- Fine Arts
- Career-Technical Education	- Foreign Language
- Family and Consumer Science	- Technology

Students must also complete Ohio Competency and Readiness requirements listed on page 4-5

# Manchester High School

## Class of 2023 and Beyond Graduation Requirements



1. **Course Completion:** Students must complete 21 credits to meet Manchester's credit requirements.
2. **Competency Demonstration:** Students will demonstrate competency in the foundational areas of English Language Arts and mathematics by earning a passing score on the ELA II and the Algebra I tests. Alternative options for demonstrating competency include College Credit Plus, career-focused activities or military enlistment.
3. **Readiness Demonstration:** Students will demonstrate readiness for their post-high school paths by earning two seals that allow them to demonstrate important foundational and well-rounded academic and technical knowledge, professional skills, social and emotional competencies, and leadership and reasoning skills. At least one seal earned must be a state-defined seal.

<b>OhioMeansJobs Readiness Seal:</b> Meet the requirements and criteria established for the readiness seal, including demonstration of work-readiness and professional competencies.	<b>State Seal of Biliteracy:</b> Proficiency requirements must be met on world language or English assessments.
<b>Industry-Recognized Credential Seal:</b> Earn an approved industry-recognized credential that is aligned to a job considered in demand in this state and its regions.	<b>Military Enlistment Seal:</b> Must provide evidence of enlistment in a branch of the U.S. Armed Forces.
<b>Citizenship Seal:</b> Earn a proficient score (700+) on the American History and Government EOC. AP and CCP courses and scores can also apply.	<b>Science Seal:</b> Earn a proficient score (700+) on the biology EOC. AP and CCP courses and scores also apply.
<b>Honors Diploma:</b> Earn one of the six state-defined honors diplomas.	<b>Technology Seal:</b> Earn a "B" or better in a CCP computer science course or complete a computer science course through our district.
<b>College-Ready Seal:</b> Earn remediation-free scores on the ACT or SAT.	<b>**Fine and Performing Arts Seal:</b> Must meet <b>at least one</b> of the following criteria: <ul style="list-style-type: none"> <li>• Earn four credits in fine arts courses</li> <li>• Participate in four drama productions</li> <li>• Senior Portfolio Art display in Manchester's Fine Arts Show</li> <li>• Superior Rating in vocal, instrumental, or comparable state competition</li> <li>• Other criteria approved by building administrator</li> </ul>
<b>**Student Engagement Seal:</b> Must complete <b>one</b> of the following: <ul style="list-style-type: none"> <li>• Earn credit in two AP courses</li> <li>• Complete four seasons of athletics</li> <li>• Participate in four extracurricular clubs during high school</li> <li>• Student proposal (scouts, 4-H, etc.)</li> </ul>	<b>**Community Service Seal:</b> Complete 20 hours of community service. Service must be documented according to MHS accountability form. Community service should be completed between the first day of freshman year and Jan. 1st of senior year.

\*\*Denotes Local Seals. Students may only earn one local seal toward state graduation requirements.  
2/11/20

## Scheduling Policies

The basis for building a master schedule of class offerings, for any school year, is the consideration of requests made by our students at scheduling time. Each individual course request affects the final schedule for the next school year.

Staffing, room assignments and the number of course sections are all determined by these choices. **Therefore, when students make their course selections, it is understood that their schedule will reflect these choices. Students will have until the last day of school to make changes.**

Each student must be registered for enough course work in one year, so they will end that year with a minimum of five and one half (5-1/2) credits in grades nine through twelve. **It is the responsibility of the student and parent to verify that a student's final schedule meets all OHSAA athletic eligibility requirements.** All questions regarding athletic eligibility should be directed to the Athletic Department.

## Grading Policy

The grading policy will be based on a 10 point grading system. All grades are recorded as letter grades. A student's average is based upon their grades in all academic classes. Final grade point averages will be calculated to include all eight semesters of academic work.

Students receiving a GPA of 3.5 and above for their nine weeks grades are placed on the Honor Roll.

Students receiving a GPA of 3.0-3.499 for their nine weeks grades are placed on the Merit Roll.

Grade	Percent Range	Point Range
A+	98-100	4.3
A	93-97	4.0
A-	90-92	3.7
B+	87-89	3.3
B	83-86	3.0
B-	80-82	2.7
C+	77-79	2.3
C	73-76	2.0
C-	70-72	1.7
D+	67-69	1.3
D	63-66	1.0
D-	60-62	0.7
F	0-59	0

## Course Obligation Fees

Most textbooks are furnished free of charge, however workbooks will be paid for by the student. Fees will also be required for certain subjects. These obligation fees should be paid during the first nine weeks grading period.

Fees listed are for the current school year and could vary from year to year. They also may increase due to shipping and handling costs. The obligation fees should not be the determining factor if a student is interested in a class. If there are financial hardships, please contact one of the counselors. Certain situations may warrant other financial arrangements.

Art Department Courses	\$25.00	Physical Education Uniform	\$15.00
Chemistry	\$12.00	Replacement Locks	\$ 6.00
English 9-12 Software Fee	\$10.00	*Senior Class Dues	\$25.00
Family & Consumer Science Courses	\$20.00	Technology Class Fee	\$ 6.00
French I, II, III & IV Workbook	\$10.00		

MLS Chromebook Fee of \$10.00 is required for all students in grades K-12

\*Senior Class Dues - The money collected will be used for the following Senior Class Activities: Senior Awards Night, Community Service Day, Senior Personality Awards and expenses incurred from Graduation.



# Ohio's High School Graduation Requirements

## Classes of 2023 and Beyond

It's Your **Future.** Get **Ready.**

**Before you know it, you'll be receiving your high school diploma. Ohio is giving you new ways to show the world what you can do with it.**

As a student entering ninth grade on or after **July 1, 2019**, Ohio's new high school graduation requirements give you more flexibility to choose a graduation pathway that builds on your strengths and passions – one that ensures you are ready for your next steps and excited about the future.

### First, cover the basics

You must earn a minimum total of 20 credits in specified subjects and take your required tests. Then, decide how you will round out your diploma requirements.

English language arts	4 credits
Health	½ credit
Mathematics	4 credits
Physical education	½ credit
Science	3 credits
Social studies	3 credits
Electives	5 credits

#### Other Requirements

You also must receive instruction in economics and financial literacy and complete at least two semesters of fine arts. Your district may require more than 20 credits to graduate.

### Second, show competency

Earn a passing score on Ohio's high school Algebra I and English II tests. Students who do not pass the test will be offered additional support and must retake the test at least once.

**Is testing not your strength?** After you have taken your tests, there are three additional ways to show competency!

#### Option 1.

##### Demonstrate Two Career-Focused Activities\*

###### Foundational

Proficient scores on WebXams  
A 12-point industry credential  
A pre-apprenticeship or acceptance into an approved apprenticeship program

###### Supporting

Work-based learning  
Earn the required score on WorkKeys Earn the OhioMeansJobs Readiness Seal

\*At least one of the two must be a foundational skill

#### Option 2.

##### Enlist in the Military

Show evidence that you have signed a contract to enter a branch of the U.S. armed services upon graduation.

#### Option 3.

##### Complete College Coursework

Earn credit for one college-level math and/or college-level English course through Ohio's free College Credit Plus program.



### **Third, show readiness**

Earn two of the following diploma seals, choosing those that line up with your goals and interests. These seals give you the chance to demonstrate academic, technical and professional skills and knowledge that align to your passions, interests and planned next steps after high school.

**At least one of the two must be Ohio-designed:**

- ☐ OhioMeansJobs Readiness Seal (Ohio)
- ☐ Industry-Recognized Credential Seal (Ohio)
- ☐ College-Ready Seal (Ohio)
- ☐ Military Enlistment Seal (Ohio)
- ☐ Citizenship Seal (Ohio)
- ☐ Science Seal (Ohio)
- ☐ Honors Diploma Seal (Ohio)
- ☐ Seal of Biliteracy (Ohio)
- ☐ Technology Seal (Ohio)
- ☐ Community Service Seal (Local)
- ☐ Fine and Performing Arts Seal (Local)
- ☐ Student Engagement Seal (Local)

**Want to learn more?** Contact your school counselor or visit [education.ohio.gov/graduation](http://education.ohio.gov/graduation)



# Ohio High School Honors Diploma

Criterion	Ohio Diploma	Academic Honors Diploma	International Baccalaureate Honors Diploma	Career Tech Honors Diploma	STEM Honors Diploma	Arts Honors Diploma (Includes dance, drama/theatre, music, and visual art)	Social Science & Civic Engagement Honors Diploma
<b>Math</b>	4 units, must include one unit of algebra II or equivalent	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	5 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content <sup>4</sup>	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content
<b>Science</b>	3 units	4 units, including two units of advanced science <sup>2</sup>	4 units, biology, chemistry, and at least one additional advance science <sup>2</sup>	4 units, including two units of advanced science <sup>2</sup>	5 units, including two units of advanced science <sup>2</sup>	3 units, including one unit of advanced science <sup>2</sup>	3 units, including one unit of advanced science <sup>2</sup>
<b>Social Studies</b>	3 units	4 units	4 units	4 units	3 units	3 units	5 units
<b>World Languages</b>	N/A	3 units of one world language, or no less than 2 units of each of two world languages studied	4 units minimum, with at least 2 units in each language studied	2 units of one world language studied	3 units of one world language, or no less than 2 units of each of two world languages studied	3 units of one world language, or no less than 2 units of each of two world languages studied	3 units of one world language, or no less than 2 units of each of two world languages studied
<b>Fine Arts</b>	2 Semesters	1 unit	1 unit	N/A	1 unit	4 units	1 unit
<b>Electives</b>	5 units	N/A	N/A	4 units of Career-Technical minimum <sup>3</sup>	2 units with a focus in STEM courses	2 units with a focus in fine arts course work	3 units with a focus in social sciences and/or civics
<b>GPA</b>	N/A	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale
<b>ACT/SAT/WorkKeys<sup>1</sup></b>	N/A	27 ACT/1280 SAT <sup>8</sup>	27 ACT/1280 SAT <sup>8</sup>	27 ACT/1280 SAT <sup>9</sup> /WorkKeys (6 Reading for Information & 6 Applied Mathematics) <sup>7</sup>	27 ACT/1280 SAT <sup>8</sup>	27 ACT/1280 SAT <sup>8</sup>	27 ACT/1280 SAT <sup>8</sup>
<b>Field Experience</b>	N/A	N/A	Complete a field experience and document the experience in a portfolio specific to the student's area of focus <sup>5</sup>	Complete a field experience and document the experience in a portfolio specific to the student's area of focus <sup>5</sup>	Complete a field experience and document the experience in a portfolio specific to the student's area of focus <sup>5</sup>	Complete a field experience and document the experience in a portfolio specific to the student's area of focus <sup>5</sup>	Complete a field experience and document the experience in a portfolio specific to the student's area of focus <sup>5</sup>
<b>Portfolio</b>	N/A	N/A	Develop a comprehensive portfolio of work based on the student's field experience or a topic related to the student's area of focus that is reviewed and validated by external experts <sup>6</sup>	Develop a comprehensive portfolio of work based on the student's field experience or a topic related to the student's area of focus that is reviewed and validated by external experts <sup>6</sup>	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus that is reviewed and validated by external experts <sup>6</sup>	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus that is reviewed and validated by external experts <sup>6</sup>	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus that is reviewed and validated by external experts <sup>6</sup>
<b>Additional Assessments</b>	N/A	N/A	N/A	Earn an industry-recognized credential or achieve proficiency benchmark for appropriate Ohio Career-Technical Competency Assessment or equivalent	N/A	N/A	N/A

**NOTE: Items shaded in blue are changes that were made to the honors diploma system, including the entire STEM, Arts, and Social Science and Civic Engagement Honors Diplomas**

# Ohio High School Honors Diploma

## NOTES:

For the Academic, International Baccalaureate, and Career Tech Honors Diplomas, students who entered the ninth grade between July 1, 2013 and June 30, 2017 may choose to pursue the diploma by meeting the requirements of these criteria or the previous criteria. Students entering the ninth grade on or after July 1, 2017 must meet these criteria.

Completion of any advanced standing program, which includes Advanced Placement, International Baccalaureate, College Credit Plus, and may include Credit Flexibility, can be counted toward the unit requirements of an Honors Diploma.

Students must meet all but one of the criteria to qualify for an Honors Diploma, and any one of the criteria may be the one that is not met.

Diploma with Honors requirements pre-suppose the completion of all [high school diploma requirements](#) in the Ohio Revised Code including:

½ unit physical education (unless exempted), ½ unit health, ½ unit in American history, ½ unit in government, and 4 units in English. The class of 2021 and beyond will need to have ½ unit in world history and civilizations as well.

<sup>1</sup>Writing sections of either standardized test should not be included in the calculation of this score. The Locating Information test is not included in the calculation of the WorkKeys score.

<sup>2</sup>Advanced science refers to courses that are inquiry-based with laboratory experiences and align with the 11/12th grade standards (or above) or with an AP science course, or with an entry-level college course (clearly preparing students for a college freshman-level science class, such as anatomy, botany, or astronomy).

<sup>3</sup>Program must lead to an industry recognized credential, apprenticeship, or be part of an articulated career pathway which can lead to post-secondary credit.

<sup>4</sup>The fifth mathematics and science credit for the STEM honors diploma may be fulfilled with a single course.

<sup>5</sup>Field Experience refers to experiential learning in either an internship or apprenticeship. Students will document their experiences by describing their understanding in a portfolio.

<sup>6</sup>The student portfolio is a collection of experiential learning and competencies based on the student's field experiences. Students will engage with professionals or scholars in the field while developing their own portfolio or ePortfolio of original work that documents their technical, critical and creative skills representative of their honors focus; students' work must be reviewed and evaluated by scholars or professionals within the field/area of study in which the students' work is focused, and the scholars or professionals must be external to the district staff; students will give a presentation to showcase the work and provide an analysis of it to the school and local community. If the student does not complete a field experience, the portfolio can be based on a collection of work related to the student's honors diploma area of focus.

<sup>7</sup>Students must score a minimum of a 6 on the Applied Mathematics WorkKeys Assessment and a minimum of 6 on the Reading for Information WorkKeys Assessment in order to meet the WorkKeys score requirement. The WorkKeys option applies only to the Career Tech Honors Diploma.

<sup>8</sup>These scores are based on the 2016 ACT and SAT assessments. Concordance tables outlining equivalent scores for past and future tests that differ from the 2016 versions will be published on the ODE website. Tables to concord SAT assessments taken prior to March 2016 can be found [here](#). Further information on test concordance can be found [here](#).



# 9th Grade Course Offering - 2023/2024

## **REQUIRED COURSES: Your schedule must consist of a minimum of six (6) academic periods per day.**

### **English (select one):**

_____ 1110	C.P. English 9	Year-1
_____ 1120	Advanced English 9	Year-1

### **Social Studies:**

_____ 2300/2301	U.S. History	Year-1
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### **Required for Graduation:**

_____ 1150	Basic Comm. Skills	Sem.-1/2
_____ 2700	*Personal Finance	Sem.-1/2
_____ 9300	Physical Education	Sem.-1/2
_____ 9500	Health	Sem.-1/2

### **Mathematics (select one):**

_____ 3110	C.P. Algebra I	Year-1
_____ 3210	C.P. Unified Geometry	Year-1
_____ 3112	Algebra I - IM	Year-1

### **Science (select one):**

_____ 3700/3701	General Biology	Year-1
_____ 3610	Accelerated Biology	Year-1

*\*Beginning in fall of 2022, 9th graders must take "Personal Finance" as a graduation requirement. We recommend that students wait to take this course when possible, as the concepts become more applicable as students approach graduation.*

## **ELECTIVES:**

### **Art:**

_____ 5100	Art I	Year-1
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### **Business Education:**

_____ 4400	Computer Applications I	Year-1
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### **Family & Consumer Science:**

_____ 6100	Creative Cooking	Sem.-1/2
_____ 6120	Food for the Family	Sem.-1/2
_____ 6210	Kids and You	Sem.-1/2
_____ 6300	Independent Living	Sem.-1/2

### **Foreign Language:**

_____ 7100	French I	Year-1
_____ 7500	Spanish I	Year-1

### **Music:**

_____ 8100	Marching Band	Sem.-1/2
_____ 8120	Concert Band	Sem.-1/2
_____ 8200	Manchester Voices	Year-1
_____ 8300	Music Appreciation	Sem.-1/2
_____ 8310	Music Theory	Sem.-1/2

### **Technology:**

_____ 9640	Intro to Technology	Sem.-1/2
_____ 9650	Computer Programming I	Sem.-1/2
_____ 9652	Computer Programming II	Sem.-1/2
_____ 9660	Digital Media Arts I	Sem.-1/2

### **Additional:**

_____ 1500	Guided Study	Year-0
_____ 5800	Tutoring I	1st Sem.-0
_____ 6800	Tutoring II	2nd Sem.-0
_____ 9630	Career Exploration	Sem.-1/2

# 10th Grade Course Offering - 2023/2024

## **REQUIRED COURSES: Your schedule must consist of a minimum of six (6) academic periods per day.**

### **English (select one):**

_____ 1210	C.P. English 10	Year-1
_____ 1220	Advanced English 10	Year-1

### **Social Studies:**

_____ 2100	World History	Year-1
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### **Required for Graduation:**

_____ 1150	Basic Comm. Skills	Sem.-1/2
_____ 2700	*Personal Finance	Sem.-1/2
_____ 9300	Physical Education	Sem.-1/2

### **Mathematics (select one):**

_____ 3210	C.P. Unified Geometry	Year-1
_____ 3310	C.P. Algebra II	Year-1
_____ 3211	Unified Geometry - IM	Year-1

### **Science (select one):**

_____ 3600	Physical Science	Year-1
_____ 3800	Chemistry I	Year-1

## **ELECTIVES:**

### **Art:**

_____ 5100	Art I	Year-1
_____ 5200	Art II	Year-1

### **Technology:**

_____ 9640	Intro to Technology	Sem.-1/2
_____ 9650	Computer Programming I	Sem.-1/2
_____ 9652	Computer Programming II	Sem.-1/2
_____ 9660	Digital Media Arts I	Sem.-1/2
_____ 9661	Digital Media Arts II	Sem.-1/2

### **Business Education:**

_____ 4400	Computer Applications I	Year-1
_____ 4410	Computer Applications II	Year-1

### **English:**

_____ 1160	Adv. Comm. Skills	Sem.-1/2
_____ 1180	Mythology	Sem.-1/2

### **Additional Courses:**

_____ 1170	College Readiness	Sem.-1/2
_____ 1500	Guided Study	Year-0
_____ 5800	Tutoring I	1st Sem.-0
_____ 6800	Tutoring II	2nd Sem.-0
_____ 9630	Career Exploration	Sem. - 1/2
_____ 9690	Yearbook	Year-1

### **Family & Consumer Science:**

_____ 6100	Creative Cooking	Sem.-1/2
_____ 6120	Food for the Family	Sem.-1/2
_____ 6210	Kids and You	Sem.-1/2
_____ 6300	Independent Living	Sem.-1/2

### **Foreign Language:**

_____ 7100	French I	Year-1
_____ 7200	French II	Year-1
_____ 7500	Spanish I	Year-1
_____ 7600	Spanish II	Year-1

### **Music:**

_____ 8100	Marching Band	Sem.-1/2	_____ 8300	Music Appreciation	Sem.-1/2
_____ 8120	Concert Band	Sem.-1/2	_____ 8310	Music Theory	Sem.-1/2
_____ 8200	Manchester Voices	Year-1			

# 11th Grade Course Offering - 2023/2024

## **REQUIRED COURSES: Your schedule must consist of a minimum of six (6) academic periods per day.**

### **English (select one):**

_____	1310/1340	C.P. English 11	Year-1
_____	1320	A.P. English	Year-1
		Language & Comp.	

### **Science (select one):**

_____	3800	Chemistry I	Year-1
_____	3820	A.P. Chemistry	Year-1
_____	3900	Physics	Year-1
_____	3920	Environmental Science	Year-1

### **Mathematics (select one):**

_____	3302	Algebra II E - IM	Year-1
_____	3310	C.P. Algebra II	Year-1
_____	3400	Pre-Calculus	Year-1
_____	3300	Algebra II	Year-1

### **Required for Graduation:**

_____	1150	Basic Comm. Skills	Sem.-1/2
_____	2700	*Personal Finance	Sem.-1/2
_____	9300	Physical Education	Sem.-1/2
_____	9500	Health	Sem.-1/2
_____	9630	*Career Exploration	Sem.-1/2

***\*Personal Finance OR Career Exploration***

## **ELECTIVES:**

### **Art:**

_____	5100	Art I	Year-1
_____	5200	Art II	Year-1
_____	5300	Studio Problems	Year-1

### **Music:**

_____	8100	Marching Band	Sem.-1/2
_____	8120	Concert Band	Sem.-1/2
_____	8200	Manchester Voices	Year-1
_____	8300	Music Appreciation	Sem.-1/2
_____	8310	Music Theory	Sem.-1/2

### **Business Education:**

_____	4400	Computer Applications I	Year-1
_____	4410	Computer Applications II	Year-1
_____	4500	Accounting I	Year-1

### **Social Studies:**

_____	2500	Applied Economics	Sem.-1/2
_____	2600	Global Studies	Sem.-1/2

### **English:**

_____	1160	Adv. Comm. Skills	Sem.1/2
_____	1180	Mythology	Sem-1/2

### **Family & Consumer Science:**

_____	6100	Creative Cooking	Sem.-1/2
_____	6120	Food for the Family	Sem.-1/2
_____	6210	Kids and You	Sem.-1/2
_____	6300	Independent Living	Sem.-1/2

### **Technology:**

_____	9640	Intro to Technology	Sem.-1/2
_____	9650	Computer Programming I	Sem.-1/2
_____	9652	Computer Programming II	Sem.-1/2
_____	9660	Digital Media Arts I	Sem.-1/2
_____	9661	Digital Media Arts II	Sem.-1/2

### **Foreign Language:**

_____	7100	French I	Year-1
_____	7200	French II	Year-1
_____	7300	French III	Year-1
_____	7500	Spanish I	Year-1
_____	7600	Spanish II	Year-1
_____	7700	Spanish III	Year-1

### **Additional Courses:**

_____	1170	College Readiness	Sem.-1/2
_____	1500	Guided Study	Year-0
_____	5800	Tutoring I	1st Sem.-0
_____	6800	Tutoring II	2nd Sem.-0
_____	9680	Career Based Int.	Year-1.5
_____	9681	C.B.I.- Related	Year-1.5
_____	9690	Yearbook	Year-1
_____	7770	Portage Lakes Career Center 1/2 Day	
_____	7777	Portage Lakes Career Center	

### **Health & Physical Education:**

_____	9310	Foundations of Fitness	Sem.-1/2
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# 12th Grade Course Offering - 2023/2024

**REQUIRED COURSES: Your schedule must consist of a minimum of six (6) academic periods per day.**

## English (select one):

_____	1410/1440	C.P. English 12	Year-1
_____	1420	A.P. English	Year-1
		Literature & Composition	
_____	1450 +English Comp. I (CCP Course)		Sem.-1
_____	1451 +English Comp. II (CCP Course)		Sem.-1

## Mathematics (select one):

_____	3400	Pre-Calculus	Year-1
_____	3420	A.P. Calculus AB	Year-1
_____	3130	Transition Math - IM	Year-1
_____	3450	Statistics & Probability	Year-1
_____	3440	Business Math	Year-1

## Social Studies:

_____	2400/2401	Principles of Democracy	Year-1
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## Required for Graduation:

_____	1150	Basic Comm. Skills	Sem.-1/2
_____	2700	*Personal Finance	Sem.-1/2
_____	9300	Physical Education	Sem.-1/2
_____	9500	Health	Sem.-1/2
_____	9630	*Career Exploration	Sem.-1/2

**\* *Personal Finance OR Career Exploration***

**+ *Must be accepted by Univ. of Akron CCP program and meet placement requirements***

## ELECTIVES:

### Art:

_____	5100	Art I	Year-1
_____	5200	Art II	Year-1
_____	5300	Studio Problems	Year-1
_____	5400	Adv. Studio Problems	Year-1

### Business Education:

_____	4400	Computer Applications I	Year-1
_____	4410	Computer Applications II	Year-1
_____	4500	Accounting I	Year-1

### English:

_____	1160	Adv. Comm. Skills	Sem.1/2
_____	1180	Mythology	Sem-1/2

### Family & Consumer Science:

_____	6100	Creative Cooking	Sem.-1/2
_____	6120	Food for the Family	Sem.-1/2
_____	6210	Kids and You	Sem.-1/2
_____	6300	Independent Living	Sem.-1/2

### Foreign Language:

_____	7100	French I	Year-1
_____	7200	French II	Year-1
_____	7300	French III	Year-1
_____	7400	French IV	Year-1
_____	7500	Spanish I	Year-1
_____	7600	Spanish II	Year-1
_____	7700	Spanish III	Year-1
_____	7800	Spanish IV	Year-1

### Health & Physical Education:

_____	9310	Foundations of Fitness	Sem.-1/2
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### Music:

_____	8100	Marching Band	Sem.-1/2
_____	8120	Concert Band	Sem.-1/2
_____	8200	Manchester Voices	Year-1
_____	8300	Music Appreciation	Sem.-1/2
_____	8310	Music Theory	Sem.-1/2

### Science:

_____	3800	Chemistry I	Year-1
_____	3820	A.P. Chemistry	Year-1
_____	3900	Physics	Year-1
_____	3910	A.P. Physics I	Year-1
_____	3920	Environmental Science	Year-1

### Social Studies:

_____	2420	Current Issues	Sem.-1/2
_____	2500	Applied Economics	Sem.-1/2
_____	2600	Global Studies	Sem.-1/2

### Technology:

_____	9640	Intro to Technology	Sem.-1/2
_____	9650	Computer Programming I	Sem.-1/2
_____	9652	Computer Programming II	Sem.-1/2
_____	9660	Digital Media Arts I	Sem.-1/2
_____	9661	Digital Media Arts II	Sem.-1/2

### Additional Courses:

_____	1170	College Readiness	Sem.-1/2
_____	1500	Guided Studies	Year-0
_____	5800	Tutoring I	1st Sem.-0
_____	6800	Tutoring II	2nd Sem.-0
_____	9680	Career Based Int.	Year-1.5
_____	9681	C.B.I.-Related	Year-1.5
_____	9690	Yearbook	Year-1
_____	8880	Portage Lakes Career Center 1/2 Day	
_____	8888	Portage Lakes Career Center	



# Art Department - Course Description

## **ART I - 5100**

**All Year - 1 Credit**

**Open to:** Grades 9-12

**Prerequisite:** None

**Course Fee:** \$25.00 and students will be responsible for keeping a student portfolio

Art I is designed to open the student to a better appreciation of art, as well as, provide a foundation for Art II.

The first semester work will be devoted primarily to drawing procedures stressing perspective, drawing with emphasis on shading, form, line, contour textures, and values. Color and design theory will be introduced emphasizing harmony, balance, and dominance which will be applied to a variety of practical problems, i.e., overall design, illustration, posters, and lettering.

The second semester curriculum will include painting in various media and styles. The following media may be included as part of the total experience: printmaking, illustration, collage, and three-dimensional design.

## **ART II - 5200**

**All Year - 1 Credit**

**Open to:** Grades 10-12

**Prerequisite:** Art I

**Course Fee:** \$25.00 and students will be responsible for keeping a student portfolio

The first semester will include drawing procedures, again stressing more advanced concepts in perspective and drawing techniques with more emphasis placed upon composition and originality of subjects. Various media will be explained and students will be expected to attain a higher level of competency in the handling of drawing skills. Design and color theory will be reintroduced through a more sophisticated use of color handling. Design, arrangement, and personal feeling for subject matter will be encouraged.

During the second semester, students will again experience the painting in various media and style. Figure study will be included at this level and emphasis will be placed upon body proportion and gesture. Students will include the development of personal subjects such as: home and neighborhood, urban and rural, objects, figures and imaginative sources. Experiences in printmaking, illustration, mixed media, digital photography, 3-dimensional design and experimental techniques will be offered, emphasizing the process, materials, and originality of the finished product.

## **STUDIO PROBLEMS - 5300**

**All Year - 1 Credit**

**Open to:** Grades 11-12

**Prerequisite:** Art II

**Course Fee:** \$25.00 and students will be responsible for keeping a student portfolio

The Studio Problems course is designed for students who have completed Art I and II. Problems in painting, drawing, lettering, ceramics, graphics, design, color, art history, digital photography, and other areas will be investigated.

## **ADVANCED STUDIO PROBLEMS - 5400**

**All Year - 1 Credit**

**Open to:** Grade 12

**Prerequisite:** Studio Problems

**Course Fee:** \$25.00 and students will be responsible for keeping a student portfolio.

The Advanced Studio Problems course is designed for seniors who have completed the Studio Problems course. Problems in painting, drawing, lettering, sculpture, digital photography, ceramics, graphics, design, color, and art history will be investigated.

## **Business Education - Course Description**

### **COMPUTER APPLICATIONS I - 4400**

**All Year - 1 Credit**

**Open to:** Grades 9-12

**Prerequisite:** None

**Course Fee:** None

Students will develop keyboarding skills and utilize computer software applications in a project-based environment. Lessons will focus on word processing, spreadsheet, presentation, database and some graphic design applications within Microsoft Office, Google Apps and other related platforms. This course is valuable at all levels and recommended for college bound students as well as those who will work in the business world.

### **COMPUTER APPLICATIONS II - 4410**

**All Year - 1 Credit**

**Open to:** Grades 10-12

**Prerequisite:** Computer Applications I

**Course Fee:** None

Advanced keyboarding skills and software applications will be applied to higher-level projects, including presentations, letter productions, reports, tabulations and special forms. Offered to sophomore, junior and senior students who have completed Computer Applications I satisfactorily.

### **ACCOUNTING I - 4500**

**All Year - 1 Credit**

**Open to:** Grades 11-12

**Prerequisite:** None

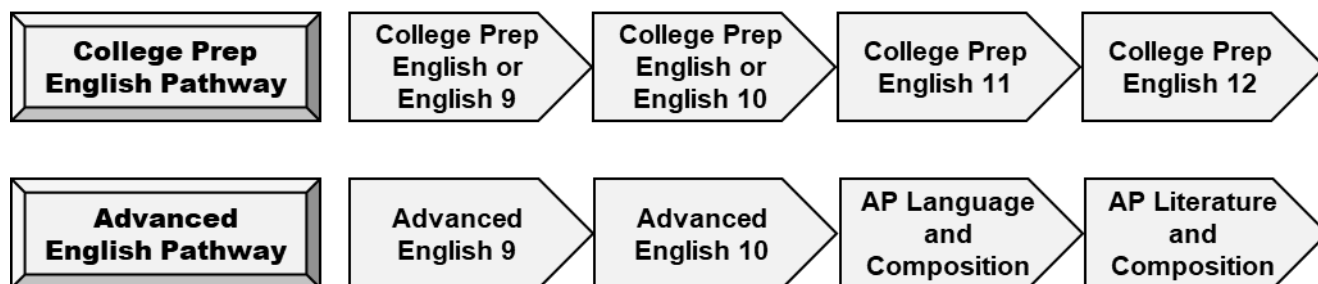
**Course Fee:** None

This course is an introduction to accounting and the world of business and is aimed at giving the students the basic principles on which to base further study in the area. It is not aimed at making accounting experts or accountants of those students who take it. It gives them enough information that they can keep a simple set of books for themselves or a small business. It also introduces them to the world of business by giving them some knowledge of terminology and forms used. In order to receive credit for this course, each student is required to purchase and complete a business simulation set. This course is highly recommended for all students who plan to major in any area of business administration in college.

## English Department - Course Description

The English program at Manchester High School has been developed to provide education in the five major skill areas covered in Ohio Core Standards in Language Arts. These areas are the following: Reading/Informational (RI), Reading/Literature (RL), Writing (W), Language/Grammar (L), and Speaking and Listening (SL).

There are ability levels (placements) for each grade: English, College Preparatory English, and Advanced English for grades 9 and 10; and College Preparatory and Advanced Placement English for grades 11 and 12. Students will be placed in the appropriate level according to academic record (Assessment tests, Standardized tests, classroom grades) and teacher and counselor recommendation.



### Failure Policy in English

If a student fails an English course, he/she must retake the entire year of that course. Each student must pass the previous English course before he/she can enroll in the next level. For example, if a student has failed English 9, he/she cannot enroll in English 10 unless he/she has earned credit for the failed class. No student will be permitted to enroll in two levels of the English program simultaneously unless special permission is granted by the principal.

# English Department - Course Description

## **BASIC COMMUNICATION SKILLS - 1150**

**One Semester - 1/2 Credit**

**Open to:** Grades 9-12

**Prerequisite:** None

**Course Fee:** None

Because the development of students' communication skills is a vital component of an effective English language program, Manchester High School students are required to complete this one-semester speech course. The course is designed to give each student a general understanding of the communication process and more specifically, an understanding of and practice in group discussion, speech preparation, speech presentation, and speech evaluation. Students may enroll in this course at any grade level; however, it is recommended that this course be taken during 9<sup>th</sup> or 10<sup>th</sup> grade.

## **ADVANCED COMMUNICATION SKILLS - 1160**

**One Semester - 1/2 Credit**

**Open to:** Grades 10-12

**Prerequisite:** Basic Communication Skills

**Course Fee:** None

Building on skills covered in the prerequisite, this course will emphasize more advanced techniques for communication. The course is geared for those who will need speech for college and whose career choices will require excellence in communication. Students will prepare and present an expanded variety of speeches including humorous, oral interpretation, and dramatic. Debate, parliamentary procedure, or panel discussions may also be included. To fulfill requirements for the class, students must participate in one out-of-class speaking activities such as: morning announcements, competition, announcing at an MHS event, Voice of Democracy, and others approved by the teacher.

## **A.P. ENGLISH LANGUAGE AND COMPOSITION - 1320**

**All Year - 1 Credit**

**Open to:** Grade 11

**Prerequisite:** Placement in English courses are determined by student ability and teacher recommendation

**Course Fee:** AP Exam Fee \$97.00 (subject to increase)

An A.P. course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. AP Exam is required of all students.

## **A.P. ENGLISH LITERATURE AND COMPOSITION - 1420**

**All Year - 1 Credit**

**Open to:** Grade 12

**Prerequisite:** Placement in English courses are determined by student ability and teacher recommendation

**Course Fee:** AP Exam Fee \$97.00 (subject to increase)

An A.P. English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. AP Exam is required of all students.

## English Department - Course Description

### **MYTHOLOGY - 1180**

**One Semester - 1/2 Credit**

**Open to:** Grades 10-12

**Prerequisite:** None

**Course Fee:** None

Course readings will include mythology and folklore from a variety of cultures, encompassing Greek, Roman, Native American, Norse, Asian, African and British myths, as well as modern cultural legends in the making. We will explore connections between mythology and the English Language and pop culture. Class assignments will include reading, writing, some film study and creative projects. This class is designed to challenge you, to provide you with philosophical insights, and to make you think about diverse cultures, their stories and their impact on our modern society.

### **ENGLISH COMPOSITION I (CCP COURSE) - 1450**

**One Semester- 1 Credit**

**Prerequisite:** Acceptance into the University of Akron CCP Program and meet the placement requirements for English Composition I. Recommendation: Three years of high school English Language.

**Course Fee:** None

This course is taught by a Manchester High School teacher, and is a weighted semester course in which students can earn one credit of high school English and three credits from The University of Akron. This College Credit Plus course will incorporate extensive and varied experience in developing writing skills, with practice in expressive, reflective, and analytic forms of writing.

### **ENGLISH COMPOSITION II - 1451**

**One Semester - 1 Credit**

**Prerequisite:** Acceptance into the University of Akron CCP Program and English Composition I.

**Course Fee:** None

This course is taught by a Manchester High School teacher, and is a course in which students can earn one credit of high school English and three credits from The University of Akron. This College Credit Plus course is designed to develop skills in analyzing and writing persuasive arguments.

# Family and Consumer Science Department - Course Description

## **CREATIVE COOKING - FOODS I - 6100**

**One Semester - 1/2 Credit**

**Open to:** Grades 9-12

**Prerequisite:** None (recommended as the first course)

**Course Fee:** \$20.00

This course is designed to focus on basic methods of food preparation, kitchen safety, and selection of food products. Special emphasis is on ingredient choices, measuring, cooking terminology, and equipment selection and usage. Students will recognize various methods of cooking food and evaluate appearance, aroma, flavor, and texture of products. Students will apply information to promote a healthy lifestyle.

## **FOOD FOR THE FAMILY- FOODS II - 6120**

**One Semester - 1/2 Credit**

**Open to:** Grades 9-12

**Prerequisite:** Creative Cooking or teacher's recommendation

**Course Fee:** \$20.00

This is a comprehensive course in advanced food preparation for the more experienced cook. It focuses on food preparation of recipes appropriate for the average family and the function of ingredients. Students will experience various methods of preparation, i.e. the microwave, mixer, blender, and standard measuring equipment. Recipe terminology, ingredient substitutions, and familiarity with standardized recipes are also discussed.

## **KIDS AND YOU - 6210**

**One Semester - 1/2 Credit**

**Open to:** Grades 9-12

**Prerequisite:** None

**Course Fee:** \$20.00

This course is designed to take students on an extraordinary journey through the stages of childhood. Students will be exposed to family diversity and have the opportunity to experience first-hand responsibilities of being a parent of a child and correlate their personal health decision-making to the life of their future child.

## **INDEPENDENT LIVING - 6300**

**One Semester - 1/2 Credit**

**Open to:** Grades 9-12

**Prerequisite:** None

**Course Fee:** \$20.00

This course is designed to prepare students with skills to live independently. Skills are developed to help students manage their needs in the areas of decision making, job-related skills, housing, financial literacy & management, and nutrition & food preparation.

## Foreign Language Department - Course Description

### **FRENCH I - 7100**

**All Year - 1 Credit**

**Open to:** Grades 9-12

**Prerequisite:** None

**Course Fee:** \$10.00

This introduction to the French language emphasizes and combines basic conversation, vocabulary acquisition, grammatical structures, simple verb tenses, reading comprehension, writing, listening and culture. Students receive a solid foundation in the language, as well as an exposure to the French culture.

### **FRENCH II - 7200**

**All Year - 1 Credit**

**Open to:** Grades 10-12

**Prerequisite:** French I (A "C" average or better in French I is recommended)

**Course Fee:** \$10.00

French II is a continuation of French I with reinforcement of material previously learned and the acquisition of new vocabulary and more advanced grammatical structures. More emphasis is placed on reading, writing, listening and speaking than in the previous year. Students are exposed to further study of the culture and history.

### **FRENCH III - 7300**

**All Year - 1 Credit**

**Open to:** Grades 11-12

**Prerequisite:** French II (A "C" average or better in French II is recommended)

**Course Fee:** \$10.00

This course is designed to strengthen conversational skills, review grammar, acquire more advanced grammatical structures, and increase vocabulary with an emphasis on comprehension, composition and conversation. Cultural study is continued.

### **FRENCH IV - 7400**

**All Year - 1 Credit**

**Open to:** Grade 12

**Prerequisite:** French III (A "C" average or better in French III is recommended)

**Course Fee:** \$10.00

This course is designed to continually strengthen conversational skills, review grammar, acquire more advanced grammatical structures, and increase vocabulary with an emphasis on comprehension, composition and conversation. Cultural study is continued.



## Foreign Language Department - Course Description

### **SPANISH I - 7500**

**All Year - 1 Credit**

**Open to:** Grades 9-12

**Prerequisite:** None

**Course Fee:** None

This introduction to the Spanish language emphasizes and combines basic conversation, vocabulary acquisition, grammatical structures, simple verb tenses, reading comprehension, writing, and culture. Students receive a solid foundation in the language as well as an exposure to the Spanish culture.

### **SPANISH II - 7600**

**All Year - 1 Credit**

**Open to:** Grades 10-12

**Prerequisite:** Spanish I (A "C" average or better in Spanish I is recommended)

**Course Fee:** None

Spanish II is a continuation of Spanish I with reinforcement of material previously learned and the acquisition of new vocabulary and more advanced grammatical structures. More emphasis is placed on reading and writing than in the previous year. Students are exposed to further study of the culture and history.

### **SPANISH III - 7700**

**All Year - 1 Credit**

**Open to:** Grades 11-12

**Prerequisite:** Spanish II (A "C" average or better in Spanish II is recommended)

**Course Fee:** None

This course is designed to strengthen conversational skills, review grammar, acquire more advanced grammatical structures, and increase vocabulary with an emphasis on comprehension and composition. Cultural study is continued.

### **SPANISH IV - 7800**

**All Year - 1 Credit**

**Open to:** Grade 12

**Prerequisite:** Spanish III (A "C" average or better in Spanish III is recommended)

**Course Fee:** None

This course is designed to continually strengthen conversational skills, review grammar, acquire more advanced grammatical structures, and increase vocabulary with an emphasis on comprehension and composition. Cultural study is continued.

## Health & Physical Education - Course Description

### **PHYSICAL EDUCATION - 9300**

**One Semester - 1/2 Credit**

**Open to:** Grades 9-12 (students must enroll in at least one semester their Freshman year and have attempted to complete the P.E. requirement by the end of their Sophomore year)

**Prerequisite:** All students are required to complete two semesters of Physical Education unless opting-out using a P.E. Waiver

**Course Fee:** \$15.00

The physical education program is designed to offer a variety of activities. Many of the activities are designed to provide for carryover to lifetime sports. The courses are grouped into semesters. Each grouping contains different courses which provide for a variety of activities. Only ¼ credit total counts towards athletic eligibility.

### **FOUNDATIONS OF FITNESS - 9310**

**One Semester - 1/2 Credit**

**Open to:** Grades 11-12

**Prerequisite:** None

**Course Fee:** None

The purpose of the Foundations of Fitness course is to provide each young person with a plan for a lifetime of good health and fitness. Through physical training, an understanding of nutrition, and the development of time management skills, students will learn that personal success and happiness are directly linked to physical, mental, moral, and emotional health.

### **HEALTH - 9500**

**One Semester - 1/2 Credit**

**Open to:** Grades 9-12 (Required for all Freshman)

**Prerequisite:** None

**Course Fee:** None

Health involves the relationship between the physical, emotional, and social aspects of life. Course study includes: nutrition, drugs, alcohol, tobacco, personal and community health, and developing a concept of health.

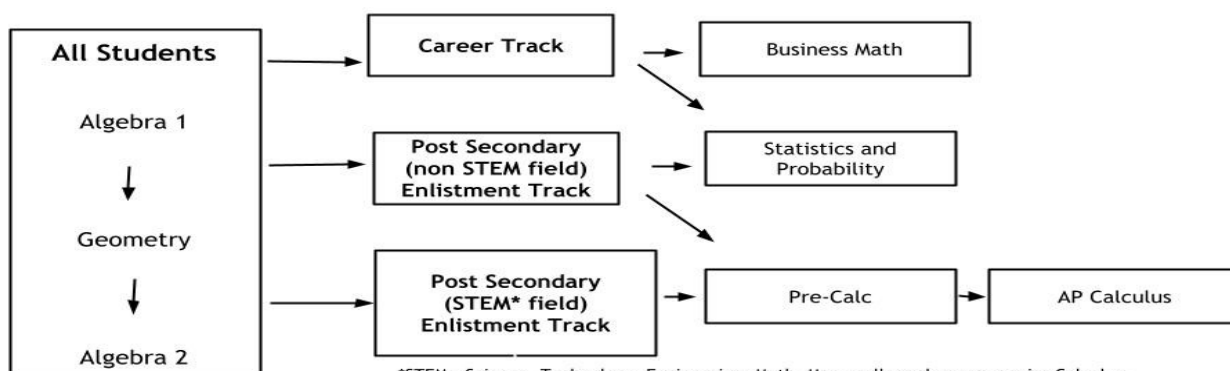
## Physical Education Waiver Information

Manchester Local School Board of Education has adopted a policy to excuse a student from the high school physical education requirement (two semesters) who, during high school, has participated in interscholastic athletics, marching band or cheerleading for at least two full seasons. However, the student shall be required to complete one unit of credit, consisting of at least 120 hours of instruction, in another course of study. Please see your guidance counselor to receive a P.E. Waiver form for approval.

# Mathematics Department - Course Description

\*Math course changes must be made by the first week of school. (Exceptions on a case-by-case basis)

## MHS Math Pathways



\*STEM - Science, Technology, Engineering, Math. Many college degrees require Calculus.  
ODE has many great resources for decision making for students and parents.  
[Please click here or search the ODE website for the math decision making tree.](https://education.ohio.gov/Topics/Learning-in-Ohio/Mathematics/Resources-for-Mathematics/Math-Pathways/Higher-Ed-Entry-Level-Math-Pathways-Course-Descrip)

<https://education.ohio.gov/Topics/Learning-in-Ohio/Mathematics/Resources-for-Mathematics/Math-Pathways/Higher-Ed-Entry-Level-Math-Pathways-Course-Descrip>

### CP ALGEBRA I - 3110

**All Year - 1 Credit**

**Open to:** Grades 9-12

**Prerequisite:** None

**Course Fee:** None (TI-83/84 graphing calculator is recommended)

This College-Preparatory course offers a more advanced study of the nature of algebra, the study of symbolism in algebra, and the use of the number system in solving practical and theoretical problems. Students who earned a C or higher in the previous math course are recommended to take this course.

### CP UNIFIED GEOMETRY - 3210

**All Year - 1 Credit**

**Open to:** Grades 9-12

**Prerequisite:** CP Algebra I and students who take Algebra I in the 8<sup>th</sup> grade MUST get a B or higher to take CP Unified Geometry in 9<sup>th</sup> grade. If grade is C or lower, they must retake CP Algebra I in the 9<sup>th</sup> grade

**Course Fee:** None (TI-83/84 graphing calculator is recommended)

This College-Preparatory course is a more advanced study which incorporates the important features of plane and solid geometry with the fundamentals of analytic and transformational geometry.

### CP ALGEBRA II - 3310

**All Year - 1 Credit**

**Open to:** Grades 10-12

**Prerequisite:** CP Algebra I and CP Unified Geometry with a grade of C or higher

**Course Fee:** None (TI-83/84 graphing calculator is required)

CP Algebra II is a College-Preparatory course which deals with the solution of one or more variables, functional relations, proportion and variation, logarithms, and the binomial theorem. Every student planning to major in a science or mathematics curriculum in college should take this course.

# Mathematics Department - Course Description

## ALGEBRA II - 3300

All Year - 1 Credit

**Open to:** Grades 11-12

**Prerequisite:** CP Algebra I and CP Unified Geometry with a grade of C- or lower

**Course Fee:** None (TI-83/84 graphing calculator is required)

Algebra II is a moderately-paced course which deals with the solution of one or more variables, functional relations, proportion and variation, logarithms, and the binomial theorem.

## PRE-CALCULUS - 3400

All Year - 1 Credit

**Open to:** Grades 11-12

**Prerequisite:** CP Algebra I, CP Geometry, and CP Algebra II

**Course Fee:** None (TI-83/84 graphing calculator is required)

This is a college preparatory course which includes coordinate geometry, the algebra and graphing of polynomial functions, inequalities, exponential and logarithmic functions, trigonometry, sequences and series, basic limit theory, and elementary differentiation. Students who earned an A or a B Algebra 2 will be placed in Pre-Calculus. Exceptions will be made on a case-by-case basis with input from the counselors and teachers.

## TRANSITION TO COLLEGE MATH - 3430 / 3431

All Year - 1 Credit

**Open to:** Grade 12

**Prerequisite:** CP Algebra I, CP Unified Geometry, and a C or D in CP Algebra II or Algebra II. Regular level

**Course Fee:** None

This Senior-only level course is designed for students who earned a C or D in Algebra II, but are planning to attend college. Course content is intermediate algebra taught with a three strand approach using a graphing calculator. These three strands are: 1) solve algebraically and support graphically or numerically, 2) solve graphically and/or numerically and confirm algebraically, and 3) solve graphically.

## AP CALCULUS AB - 3420

All Year - 1 Credit

**Open to:** Grade 12

**Prerequisite:** CP Algebra I, CP Unified Geometry, CP Algebra II, and CP Pre-Calculus. (A TI-89 graphing calculator is recommended)

**Course Fee:** AP Exam Fee \$97.00 (subject to increase) - (TI-83/84 graphing calculator is required)

This course is designed to cover the material presented in the first semester of a three-semester calculus series in college. Topics included: analytical geometry, limits, differentiation, integration, and the applications of each. This course meets eight periods per week with three of these periods devoted to solving homework problems and graphing calculator usage. Students will take the AP Calculus AB exam in early May for college credit and/or placement. Students are required to take the AP Exam.

## INTERVENTION MATH (IM)

All Year - 1 Credit

**Open to:** Grades 9-12

**Prerequisite:** Will be offered to select students based on teacher recommendations in the following sequence.

**Course Fee:** None

3112 - Algebra I IM - 9<sup>th</sup> Grade

3302 - Algebra IIE IM - 11<sup>th</sup> Grade

3211 - Unified Geometry IM - 10<sup>th</sup> Grade

3130 - Transition Math IM - 12<sup>th</sup> Grade

## Mathematics Department - Course Description

### **STATISTICS AND PROBABILITY — 3450**

**All Year - 1 Credit**

**Open to:** Grade 12 or with placement

**Prerequisite:** Algebra II

**Course Fee:** None

The purpose of this course is to introduce the major concepts and tools for collecting, analyzing and drawing conclusions from data. You will be exposed to broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, statistical inference and probability. Computer applications and graphing calculators may be used to manipulate data. This class is intended for the college-bound student who does not intend to pursue a STEM related major.

### **BUSINESS MATH — 3440**

**All Year - 1 Credit**

**Open to:** Grade 12

**Prerequisite:** Algebra II

**Course Fee:** None

This course is a 4th year math necessary for graduation and will emphasize mathematical applications. It is intended for students who plan to enter the workforce upon graduation. A special emphasis will be placed upon where and when mathematics is used and applied, assisting in the transition to independent decision-making. Application of mathematics to business, life, and career will also be explored. ***NOT NCAA APPROVED.***

# Music Department - Course Description

**INSTRUMENTAL MUSIC IN THE HIGH SCHOOL:** *The program of instrumental music at Manchester High School is designed to provide the students of instrumental music with an adequate and thorough background in this area. Music should be an enjoyable experience for the students.*

## **THE MANCHESTER MARCHING BAND - 8100**

**1st Semester - 1/2 Credit**

**Open to:** Grades 9-12

**Prerequisite:** None

**Course Fee:** None

The Manchester Panther Marching Band begins their rehearsals in July in order to get ready for the football season. During the school year, this group practices 5 days a week and has two after school practices on Mondays and Thursdays. This group will perform for every football game, both home and away. We also participate in various band shows during the season. Majorettes and Color Guard are required to attend scheduled clinics in the spring. This is a great group to make lasting connections with your classmates.

## **CONCERT BAND - 8120**

**2nd Semester - 1/2 Credit**

**Open to:** Grades 9-12

**Prerequisite:** None

**Course Fee:** None

The Manchester High School Concert band is a group that performs at all formal concerts and during graduation. There is also a requirement to perform at all the home games for boys varsity basketball, with each member being required to perform at 5 games. For our formal concerts, band members will perform traditional concert band literature with the occasional popular piece. The goal of this group is to work on building our skills in musicality and rhythm. It should be noted that the group will also perform in the annual Memorial Day Parade.

## **MUSIC APPRECIATION - 8300**

**One Semester - 1/2 Credit**

**Open to:** Grades 9-12

**Prerequisite:** None

**Course Fee:** None

In this course, students will learn about a wide range of music. These topics will include classical music composers, opera, musicals, video game music, movie music, and world music. The goal of this course is to expose students to as many different types of music that exist. This course will primarily focus on lectures, with musical examples. However, students will be asked to discuss various aspects of music and will be given a few projects to work on during their time in class. These projects include an opera review and writing your own video game music. This course is ideal for any student who wants to be exposed to many different aspects of music.

## **MUSIC THEORY - 8310**

**One Semester - 1/2 Credit**

**Open to:** Grades 9-12

**Prerequisite:** None

**Course Fee:** None

The purpose of this class is to learn about the many different facets of music. We will learn the various rules and fundamentals of written music as well as working on your musical ear through various ear training activities. The goal of this course is to eventually create your own piece of music using the information you learned during this course. This is a great course for anyone who wants to better understand how music operates.

## Music Department - Course Description

***CHOIR IN THE HIGH SCHOOL:*** *In Choir, students will learn valuable musical skills such as proper vocal production in a choral setting, sight reading, and how to make musical decisions while performing. These skills will be used to learn pieces for performances at various concerts and events throughout the year.*

**MANCHESTER VOICES - 8200**

**All Year - 1 Credit**

**Open to:** Grades 9-12

**Prerequisite:** None

**Course Fee:** Possible costume fee (varies from year to year)

This is a mixed choir comprised of student in grades 9-12. The choir sings for concerts, contests, and special outings. Voicing may vary from year to year, depending on personnel.



## Science Department - Course Description

### **GENERAL BIOLOGY - 3700/3701**

**All Year - 1 Credit**

**Open to:** 9th grade requirement except for students in Accelerated Biology in 9<sup>th</sup> grade

**Prerequisite:** None

**Course Fee:** None

This is a comprehensive view of biology as the study of life. The four core curriculum points are the study of cell biology, genetics, classification and ecology. Other topics include plant and animal physiology, anatomy, functions of the human body, conservation, and microbiology. These concepts are mastered through in class discussion, bimonthly laboratory experiments and evaluation sessions.

### **ACCELERATED BIOLOGY - 3610**

**All Year - 1 Credit**

**Open to:** Offered to select Freshman based on teacher recommendation

**Prerequisite:** None

**Course Fee:** None

A comprehensive view of biology as an inquiry into life is presented. This course includes the traditional concepts of cell biology, genetics, classification, and ecology. It also introduces the students to the areas of animal behavior, microbiology, molecular biology, physiology, anatomy and functions of the human body. These areas are unified and integrated through a variety of instruction. They are handled in class discussion sections, evaluation sessions, and biweekly laboratory periods for experimentation. Ninth grade students are recommended on the basis of previous science achievement and abilities.

### **CHEMISTRY I - 3800**

**All Year - 1 Credit**

**Open to:** Grades 10-12

**Prerequisite:** Completion of Algebra I prior to enrollment in Chemistry

**Course Fee:** \$12.00

This course introduces students to key concepts and theories that provide a foundation for further study in other sciences as well as advanced science disciplines. Chemistry is the study of matter through the exploration of classification, its structure and its interactions. Lab investigations are used to understand and explain the behavior of matter in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills, and real-world applications.

### **Physical Science—3600/3602**

**All Year - 1 Credit**

**Open to:** 10th graders not going into Chemistry

**Prerequisite:** None

**Course Fee:** None

Physical Science is an introduction to the science of chemistry and physics with some astronomy. Basic mathematics is used and enhanced. The principles of science are related to the student's environment and experiences.

## Science Department - Course Description

### **ADVANCED PLACEMENT CHEMISTRY - 3820**

**All Year - 1 Credit**

**Open to:** Grades 11-12

**Prerequisite:** Students are recommended by their teacher, “B” average in Chemistry I, Unified Geometry and registration in Algebra II

**Course Fee:** AP Exam Fee \$97.00 (subject to increase)

The A.P. Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. Students in AP will work on attaining a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course will contribute to the development of the students’ abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. The AP course differs from the general course in chemistry with respect to the kind of textbook used, the topics covered, the emphasis on chemical calculations and the mathematical formulation of principles, and the kind of laboratory work done by students. AP Exam is required of all students.

### **PHYSICS - 3900**

**All Year—1 Credit**

**Open to:** Grades 11-12

**Prerequisite:** Algebra II is required - Chemistry is recommended, but not required

**Course Fee:** None

Physics is the culmination of the student’s science and mathematics curriculum. It requires a firm understanding of these disciplines. Physics gives the student an understanding of the fundamental concepts of: (1) the force field of gravity, electricity, and magnetism, (2) energy in its mechanical, nuclear, thermal, sound, light, electrical, and magnetic forms. Every student who plans to attain a degree in science or mathematics in college should take physics.

### **ADVANCED PLACEMENT PHYSICS I - 3910**

**All Year - 1 Credit**

**Open to:** Grade 12

**Prerequisite:** Students are recommended by their science teacher and have completed Precalculus with a “B” average or better for each semester. While neither Chemistry nor AP Chemistry are required, both are strongly recommended.

**Course Fee:** AP Exam Fee \$97.00 (subject to increase)

The AP Physics I course is designed to be the equivalent of the first semester of an algebra-based physics course taken during the first or second year of college. Students in AP will work on attaining a depth of understanding of fundamentals and a reasonable competence in dealing with physics problems. The course will contribute to the development of the students’ abilities to think clearly and to express their ideas both orally and in writing with clarity and logic. The AP course differs from the general course in physics with respect to the kind of textbook used, the topics covered, the emphasis on physics calculations and the mathematical formulation of principles, and the kind of laboratory work done by students. AP Exam is required of all students.

### **ENVIRONMENTAL SCIENCE - 3920**

**All Year - 1 Credit**

**Open to:** Grades 11-12

**Prerequisite:** None

**Course Fee:** None

The Environmental Science course is a study of the earth’s resources with special emphasis on human impact. The units of study will integrate the sciences (physics, chemistry, biology, etc.) and the local and global effects of using the earth’s resources.

## Social Studies Department - Course Description

### **UNITED STATES HISTORY 1877 to PRESENT - 2300/2301**

**All Year - 1 Credit**

**Open to:** This course is required of all Freshman

**Prerequisite:** None

**Course Fee:** None

This course is designed to develop an understanding of our country's history. All topics will be discussed as to who, what, where, and when. Most of the conditions, institutions, and ideas which have shaped American's thoughts and actions will be systematically studied with an in-depth approach. The course will cover the gradual changes in our federal republic and the rise of the United States as a world power. The basic purpose of the course is to enable college oriented students to develop a better understanding and knowledge of America's history.

Upon completion of the course, a student should (on the basis of accumulated knowledge and rational thinking) be able to demonstrate an awareness and understanding of the "who, what, where, when, and why" of United States History.

There will be several projects that must be completed before course requirements are met.

### **WORLD HISTORY - 2100/2101**

**All Year - 1 Credit**

**Open to:** This course is required of all Sophomores

**Prerequisite:** None

**Course Fee:** None

This course is designed to enable the youth of our community to understand and to value their heritage as human beings, as members of a world society, and as citizens of the United States. The basic goals are to develop citizenship and a feeling of empathy for mankind, and to provide the skills to solve both personal and social problems with rational methods. These goals are attained through a study of significant events in world history from 1750 to the present.

Among the appreciations, attitudes, and understandings to be advanced and developed through the social studies program are the following:

- To appreciate the contributions of the past
- To provide some perspective for looking at modern society
- To understand the interdependence of people
- To understand the influence of the past on our present life
- To develop well-informed patriotism
- To understand the concept of "change"
- To develop a sense of time
- To foster creative thinking
- To see the motives behind the policies and actions of governments
- To understand the magnitude of changes in the world during the last few years and to stress democratic values in their changing world

### **PRINCIPLES OF DEMOCRACY - 2400/2401**

**All Year—1 Credit**

**Open to:** This course is required of all Seniors

**Prerequisite:** None

**Course Fee:** None

This course is designed to investigate the nature of the American Governmental System and the political process. The Executive, Legislative, and Judicial branches of government are studied within their constitutional framework, to understand that government today is an all-pervading social force. Students are confronted with current problems that face our republic so that they will be aware of the complexity of life within our nation and state. Students will be prepared to be engaged in the political process and to help offer solutions to these problems post-graduation.

There will be several projects that must be completed before course requirements are met.

## Social Studies Department - Course Description

### **CURRENT ISSUES - 2420**

**One Semester - 1/2 Credit**

**Open to:** Grade 12

**Prerequisite:** Teacher selects student participants – 12<sup>th</sup> graders

**Course Fee:** None

This course provides instruction to assist students in analyzing and deliberating on current issues. An important facet of the course is the planning and scheduling of a public issues forum. Through preparation for their public forum, students are able to gain an understanding of the inner workings of democracy.

### **APPLIED ECONOMICS - 2500**

**One Semester - 1/2 Credit**

**Open to:** Grades 11-12

**Prerequisite:** None

**Course Fee:** None

This course is designed to cover both microeconomics and macroeconomics. Students will learn to use economic reasoning skills and knowledge of major economic concepts, issues and systems in order to make informed choices as producers, consumers, savers, investors, workers and citizens in an independent world. At the microeconomic level, emphasis will be placed on the principles of economics, the forces of supply and demand, and economics in the public sector. At the macroeconomic level, emphasis will be placed on measuring and improving economic performance, and analyzing the effects of international trade on the global economy.

### **GLOBAL STUDIES - 2600**

**One Semester - 1/2 Credit**

**Open to:** Grades 11-12

**Prerequisite:** Teacher selects student participants based on various criteria

**Course Fee:** None

This course is designed to help prepare our students to become citizens of the world who can imagine creative solutions to today's challenges. The twenty-first century has transformed how people live, work, and think. More than ever before, interactions between cultures transform our ideas, values, our technology, and our way of life. Students will have an opportunity to study countries and regions of the world with a better understanding of the connections of the geography, political, government structure, economic development, social and cultural heritage, environmental concerns, energy resources and allocations, human rights and the sustainable and transitional relationship with the United States and other political units.

### **PERSONAL FINANCE - 2700**

**One Semester - 1/2 Credit**

**Open to:** Required for graduation (Class of 2026)

**Prerequisite:** None

**Course Fee:** None

The course is designed to help students understand the overall role finances play in their daily personal life for their personal well-being. The students will explore their role as a wage earner, taxpayer, and the many types of consumers they will be in our mixed market economy. The course will provide students with information that can be used to develop analytical skills to prepare for financial decision-making. Students will be able to apply financial principles to demonstrate sound, practical decision-making in personal financial situations.

# Technology Department - Course Description

## **INTRO TO TECHNOLOGY - 9640**

**One Semester - 1/2 Credit**

**Open to:** Grades 9-12

**Prerequisite:** None

**Course Fee:** \$6.00

This course is intended to give students a strong base of technological tools and skills that can be applied across the curriculum and in their lives. This course is recommended for all students to take and is a prerequisite for other computer courses. Students will explore: digital citizenship, social media platforms, web design, graphics software, 3D printing, virtual reality, CAD, QR codes, augmented reality, audio & video editing, file management & organization.

## **COMPUTER PROGRAMMING I - 9650**

**One Semester - 1/2 Credit**

**Open to:** Grades 9-12

**Prerequisite:** Algebra I

**Course Fee:** \$6.00

This course will introduce students to computer programming. The course teaches the foundational concepts of programming using the Python programming language. Students may also practice coding using robots, arduino, drones, raspberry pi, and micro controllers.

## **COMPUTER PROGRAMMING II - 9652**

**One Semester - 1/2 Credit**

**Open to:** Grades 9-12

**Prerequisite:** Computer Programming I

**Course Fee:** \$6.00

This course is a continuation of Computer Programming 1 and will pick up where that course left off. Students may choose to explore other programming languages and practice coding using robots, arduino, drones, raspberry pi, and micro controllers.

## **DIGITAL MEDIA ARTS I (formally Multimedia I) - 9660**

**One Semester - 1/2 Credit**

**Open to:** Grades 9-12

**Prerequisite:** Intro to Technology

**Course Fee:** \$6.00

Digital Media Arts I is intended for high school level students to gain an understanding of digital print and online media. Students will learn the principal skills and concepts of digital photography, graphic design, web-design, video editing, and digital integration with visual imagery. Students will use programs such as Adobe Illustrator, Adobe Photoshop, iMovie, Adobe Premiere, Google Sites, and Google Slides.

## **DIGITAL MEDIA ARTS II (formally Multimedia II) - 9661**

**One Semester - 1/2 Credit**

**Open to:** Grades 9-12

**Prerequisite:** Digital Media Arts I

**Course Fee:** \$6.00

This course is designed to extend students knowledge on the topics covered in Multimedia I. Students will use programs such as Prezi, Adobe Illustrator, Adobe Photoshop, Dreamweaver, Garage Band, Flash, and iMovie to create presentations, graphics, web pages, Musical compositions, animations, and videos.

## **Additional Courses - Course Description**

### **CAREER EXPLORATION - 9630**

**One Semester - 1/2 Credit**

**Open to:** Required for graduation (Class of 2023, 2024 and 2025)

**Prerequisite:** None

**Course Fee:** None

The career exploration course focuses upon four key concepts in order to assist students in planning their future; career awareness, career acquisition, career retention, and financial literacy. Through the integration of these concepts, the students will be able to prepare for the world of work and make informed decisions concerning their earnings.

### **CAREER BASED INTERVENTION (C.B.I.) - 9680/9681**

**All Year - 3 Credits**

**Open to:** Grades 10-12

**Prerequisite:** 10th Grade or 16 years of age

**Course Fee:** None

C.B.I. (formerly O.W.E.) The Career-Based Intervention (CBI) program is a Career-Technical Program designed to help students receive work experience in a place of employment while learning occupational adjustment and job-related instruction in school. Students must qualify to be considered for the program. The main goal of CBI is to develop, through work experience, the necessary attitudes, skills, and abilities which will enable the student to become gainfully employed.

Credit for C.B.I. may be earned as follows:

- 1 ½ credits/year for satisfactory classroom performance.
- 1 ½ credits/year for satisfactory work experience.
- TOTAL: 3 credits/year – To be completed simultaneously.

### **COLLEGE READINESS - 1170**

**Semester - 1/2 Credit**

**Open to:** Grades 10-12

**Prerequisite:** None

**Course Fee:** None

This course will be focused on ACT preparation and will combine various resources to help students improve their ACT scores. This class will utilize ACT practice tests and content area specific practice strategies for those students who are looking for support in improving their ACT skills.

### **YEARBOOK - 9690**

**All Year - 1 Credit**

**Open to:** Grades 10-12

**Prerequisite:** Instructor's approval - Ad sales amount to be determined yearly

**Course Fee:** None

The purpose is to identify the functions of a yearbook, examine a brief history of the form, recognize the changing trends, produce a memory book or a history of the year. Educational training experiences will evolve with writing copy, effective digital photography, calculating typography, layout, design, procedures for selling and advertising, critical analysis, and organization skills. This course also involves the use of desktop publishing.

## **Additional Programs**

In addition to the traditional courses and pathways toward graduation, students have several options to enhance their high school experience. It is very important to consider the student's strengths and long-term goals when looking at College Credit Plus, Credit Flex and online curriculum. Each has its pros and cons, but the most important factor is that it's a good match for the student in terms of academic needs, learning styles, independence, and areas of interest.

### **COLLEGE CREDIT PLUS PROGRAM**

Ohio's College Credit Plus Program (CCP) can help you earn high school and college credits at the same time by taking courses from colleges/universities. The purpose of this program is to promote rigorous academic pursuits and provide a wide variety of options to college-ready students. Each institution establishes its own admission criteria. Parents and students are invited to an annual CCP information night held in December to provide further information.

### **CREDIT FLEXIBLY**

Manchester High School students have the opportunity to earn high school credit based on demonstration of subject matter competency. Through a program entitled Credit Flexibility, students are able to obtain high school credits through various non-traditional means such as:

- Online courses
- Course test out options
- Personal Learning Plans (such as: independent study, internships or community programs)

The deadline for applications is December 1<sup>st</sup>. For more information on Credit Flexibility, please talk with your guidance counselor about the process and how it works.

### **MANCHESTER ONLINE DIGITAL SCHOOL (MODS)**

Manchester High School offers an online option for students with extenuating circumstances, who need the flexibility and resources that the web-based curriculum offers. The Apex platform has proven to be a worthy, stand-alone online curriculum. If families are considering this option, please remember several important components of an online platform:

- Students who are self-motivated learners, disciplined, and have the ability to work independently for extended periods of time have the most success in this environment. Meeting due dates to stay on track is very important.
- While we provide a "facilitator" to monitor student progress, there is no live interaction and instruction from a teacher.
- Academic integrity is crucial.
- For students on IEP's: while many accommodations are "built in" to the system, there may be some that just aren't possible to deliver due to the nature of an online platform.



# **Manchester High School**

## **Athletic Programs, Clubs & Activities**

**Over 80% of our high school students are involved in a sport, club or extracurricular activity.**

### **ATHLETIC PROGRAMS**

Fall:	Cheerleading	Winter:	Basketball
	Cross Country		Cheerleading
	Football		Wrestling
	Golf		
	Soccer	Spring:	Baseball
	Tennis (Girls)		Softball
	Volleyball		Tennis (Boys)
			Track & Field

### **CLUBS AND ACTIVITIES**

Art Club	Manchester Voices
BBQ Club	Marching Band
Book Club	National Honor Society
Chemistry Club	Pep Band
Concert Band	Quiz Bowl (Academic Challenge)
Drama Club (Fall Play / Spring Musical)	Science Club
Flag Drill Team	Ski Club
French Club	Spanish Club
GSA (Genders & Sexualities Alliances)	Student Council
Images	WSFM (We Speak for Manchester)
Key Club	Yearbook

# Why take Advance Placement (AP) Courses?

## Advice from fellow Manchester High School Graduates

### 1. **CHALLENGE**: Challenging yourself promotes personal growth which can be fun and rewarding.

“Manchester's AP classes taught me that challenges bring growth and that there is no shame in asking questions or making mistakes, so long as you learn from them. These lessons prepared me to succeed in my further studies in the US and in Scotland!” Colleen Wilson '15 - Library and Museum Science Masters Student at Kent State: AP English Language & Composition, AP Literature & Composition, AP Chemistry, AP Calculus

“Taking AP classes was a challenge in high school, but it prepared me for classes in college. A couple of classes were a breeze because of my knowledge I gained from taking AP courses. When it came to harder classes in college, the study habits and hard work I put into AP courses were utilized when I had to give a class my all.”  
Olivia Mattioli '17 - Nursing student: AP Calculus, AP Chemistry

### 2. **CONFIDENCE**: Building confidence for college early could create a smooth transition from high school.

“AP classes provided me with the confidence and mentorship to succeed in higher education. The teachers had high expectations but ensured success through individualized teaching sessions, expertise, and a clear passion for teaching. I was fully prepared for undergraduate classes as a result.” Megan Elavsky '09: AP English Language & Composition, AP Literature & Composition, AP Chemistry, AP Calculus

“AP classes helped to challenge me beyond what I thought I was capable of, increasing my confidence and desire to learn.”  
Stacey Forte '11 - MS Math Teacher: AP English Language & Composition, AP Chemistry, AP Calculus

“Taking AP classes not only saved me time and money in college, but they also gave me the skills I would later find out were incredibly valuable. While some subjects came easily to me, AP courses were the most impactful courses for me because it forced me to learn how to ask for help, drove me to establish study skills and instilled the diligence to show up to get extra assistance.” Shannon Bigler '11 - Social Worker/Child Therapist: AP English Language & Composition, AP Chemistry, AP Literature & Composition, AP Calculus

# Why take Advance Placement (AP) Courses?

## Advice from fellow Manchester High School Graduates

### 3. **CREDIBILITY**: Stand out amongst other applicants by being experienced with college-level courses.

“AP classes changed my life and sent me in the direction I was headed with a fuller view. I went on to be the first person in my family to graduate from college, let alone law school, and I respect science in a way I never could have without AP Chem. Erica Pruitt Voorhees '98 - Magistrate, Summit County Court of Common Pleas: AP English Language & Composition, AP Chemistry

“By taking AP classes, you set yourself apart from your peers and lay the foundation to succeed in the future. Challenge yourself; it's actually fun, Take the classes! Your future self will thank you.” Maria Knaus, MD '12 - Surgeon: AP English Language & Composition, AP Literature & Composition, AP Calculus, AP Chemistry

### 4. **CREDITS**: Earning college credits through AP courses can jump start your path to obtaining that degree.

“AP courses helped prepare me for undergraduate level course work. It gave me the confidence to transition from a small high school like Manchester to a big university like Ohio State. It also gave me more than half a year of credit hours to start out college! This got me access to better class schedules and helped me to finish my bachelors early and earn a minor.” Kimberly Shookman, MD '07 - Pediatrician at Akron Children's and NEOMED Associate Professor: AP English Language & Composition, AP Chemistry, AP Literature & Composition, AP Calculus

“The AP classes I took let me test out of several college courses. This made it so I didn't have to take classes during the summer, unlike other students in my program. AP chemistry and calculus in particular made their respective college courses substantially easier.” Ben Pontefract '10 - Assistant Professor of Pharmacy Practice at Ferris State University and Pharmacist at Spectrum Health: AP English Language & Composition, AP Chemistry, AP Calculus

### 5. **CURRENCY**: College credits and the AP exams taken in high school could help reduce college tuition costs.

“With only two classes, my AP Chemistry and AP Calculus credits allowed me to get ahead in my engineering classes enough to graduate a semester early. I saved about \$10,000 in tuition and expenses with two AP exam fees. Even with extra classes, I would not have fulfilled enough prerequisites without them. AP classes aren't only about the credits--sometimes they are about the pre-requisites and opening doors early.” Danielle Shaffer '11 – Engineer: AP English Language & Composition, AP Chemistry, AP Calculus

“My AP classes provided me with almost a full year of college credits. Those credits allowed me the flexibility in my schedule to take more advanced classes early in my college career that aligned with needed tests to secure an internship after my second year. This internship eventually provided me my first full-time job in my dream career.” Sarah Hercules '14 - Actuary: AP English Language & Composition, AP Literature & Composition, AP Calculus, AP Chemistry

# Manchester High School Graduation Requirements for Portage Lakes Career Center - Two Year Programs

A total of **21 credits** to include the following:

**English .....	4 Credits
**Mathematics .....	4 Credits
(Must include Algebra II or equivalent of Algebra II)	
**Science .....	3 Credits
- Life Science (General or Accelerated Biology)	
- Physical Science (Physical Science, Chemistry or Physics)	
- Advanced Study	
**Social Studies .....	3 Credits
- U.S. History	
- World History	
- Principles of Democracy	
Basic Communication Skills .....	1/2 Credit
Vocational Program .....	Half Day - 6 credits
	Full Day - 8 credits
Career Exploration or Personal Finance (Class of 2023, 2024, 2025).....	1/2 Credit
- Class of 2026: Personal Finance Only	
Health .....	1/2 Credit
Physical Education (2 semesters) or P.E. Waiver .....	1 Credit
Electives* .....	Remainder of credits
*One (1) Credit of Elective must be in <b><u>one</u></b> of the following areas:	
- Business	- Foreign Language
- Family & Consumer Science	- Technology
- Fine Arts	

\*\*Two (2) credits should be taken during the 9th & 10th grades while at Manchester.

Students must also complete Ohio Competency and Readiness requirements listed on page 4-5

# Portage Lakes Career Center Admission Requirements

## ADMISSION

Admission to the Portage Lakes Career Center is open to all students within the Coventry, Green, Manchester, and Springfield Local School Districts, who have completed the tenth grade. Students who are enrolled at one of the participating school districts will be accepted at the Career Center on a tuition-free basis.

## ADMISSION REQUIREMENTS

1. For **two-year** programs, a student must be sixteen years of age or older by January 1st of the school year in which he or she begins.
2. Requirements for **two-year** programs:
  - A student must have completed the tenth grade
  - A student must have earned eight units of high school credits for full-time enrollment. However, Manchester recommends that students complete the following 10 ½ credits:
    - 2 Credits of English                      - ½ Credit of Health
    - 2 Credits of Mathematics           - 1 Credit of Physical Education
    - 2 Credits of Science                   - ½ Credit of Career Exploration or Personal Finance
    - 2 Credits of Social Studies       - ½ Credit of Basic Communication Skills

It is possible to attend the Portage Lakes Career Center if a student has credit deficiencies, but these situations are evaluated on a case-by-case basis. A high school diploma can **only** be granted when the student meets all of the criteria for graduation from Manchester High School.

## PART-TIME ATTENDANCE

It is also possible to attend the PLCC to complete the lab portion only of any program. Academic courses could then be completed at Manchester during the other half of the day. Transportation between the two facilities would be provided. Manchester and the PLCC may have a different school calendar. Students attending the PLCC half day are required to be in attendance at Manchester and/or the PLCC every day that each school is in session.

# Portage Lakes Career Center Admission Procedures

## ADMISSION PROCEDURES

- A. All Manchester students who demonstrate the ability and interest to attend the Portage Lakes Career Center are encouraged to submit an “Application for Admission” to the school.
- B. Applications for admission can be submitted to the home school counselors’ office.
- C. The Student’s Responsibilities:
  - 1. Each student desiring to attend the Career Center should ask their participating school counselor for an application form.
  - 2. Each student should return their completed Application for Admission to their participating school counselor.
- D. Applications received by March 15 from students meeting the admission requirements will be considered for selection.

Applications received after March 15 will be considered a late application and will be processed as follows:

- 1. Placed into the program if there is an opening.
  - 2. Placed on the waiting list for programs that have been filed.
  - 3. Considered for placement until the second Friday after the opening day at the Career Center.
- E. After submitting an application, if a student decides not to attend the Portage Lakes Career Center, it is necessary for them to officially withdraw their application.



## Portage Lakes | Career Center

### PORTAGE LAKES CAREER CENTER

The Portage Lakes Career Center (PLCC) will serve as an extension of Green, Coventry, Manchester and Springfield High Schools. Students electing to attend the Career Center will graduate & receive their diploma from the High School of the district that they reside in. Students can attend the Career Center and still participate in band, athletics, and other extracurricular clubs and activities at their home high school. Bus transportation will be provided to and from the Career Center from the high school. Students who wish to attend Portage Lakes Career Center for a full day (academics and program) must have 8 credits. They must have 6 credits for half a day (program only.)

### PLCC CAREER & TECHNICAL PROGRAMS

#### ARTS AND COMMUNICATIONS CAREER PATH

##### **Design, Communication & Marketing (DCM)**

**3 credits/year**

Prerequisite: Junior status

This program offers students the opportunity to develop the knowledge, skills, and competencies needed to pursue a career and become a successful Visual Communication Design professional in today's multimedia world. Using state-of-the-art technology and equipment, students will explore and build creative capacity in: Graphic Design, Video Production, Digital Art & Illustration, Photography, and Multimedia Imaging & Design. *Students can potentially earn college credits in this program.*

#### HEALTH SCIENCE CAREER PATH

##### **Pre Nursing (PREN)**

**3 credits/year**

Prerequisite: Junior status

The Pre Nursing program offers the perfect starting point for a student who is planning a career in health occupations. Students in this program will be eligible to participate in state testing to be recognized as a State Tested Nurse Aide. Pre Nursing students will receive training in current health care concepts and processes and health care equipment. *Students can potentially earn college credits in this program.*

##### **Medical Technician (MT)**

**3 credits/year**

Prerequisite: Junior status

The Medical Technician program is a good fit for students who are interested in a career in the healthcare field but not necessarily full, direct patient care. Students will learn to perform phlebotomy and EKG testing while exploring pharmacology and health information systems. This diverse experience will prepare students for several different exciting fields including working in doctor or dentist offices, working in pharmacies, or pursuing a path as a healthcare technician in a variety of areas. *Students can potentially earn college credits in this program.*

## **Sports Medicine (SMED)**

**3 credits/year**

Prerequisite: Junior status

The Sports Medicine program focuses on the basic concepts of strength training techniques, muscle and cardiovascular endurance, athletic injuries and prevention, athletic taping and bracing and sports nutrition/wellness. Students who complete this two-year program will be trained for employment such as rehabilitation care assistants, handicapped care assistants, and physical fitness employees in health clubs. Additionally, many students opt to continue in four-year programs for Athletic Training, Exercise Physiology, Pre-medicine, and Physical Therapy. *Students can potentially earn college credits in this program.*

## **HUMAN SERVICES CAREER PATH**

### **Cosmetology (COS)**

**3 credits/year**

Prerequisite: Junior status, good attendance, artistic creativity

Upon completion of this two-year program, students will be eligible to take the State of Ohio licensing examination for cosmetology, which includes hair, skin and nails. Toward the end of the junior year, students can actually work on patrons in the cosmetology salon. Students are involved with all the current services offered in today's salons. *Students can potentially earn college credits towards an Associate Degree of Technical Studies in this program.*

## **HOSPITALITY & TOURISM CAREER PATH**

### **Culinary Arts (CA)**

**3 credits/year**

Prerequisite: Junior status, good attendance, artistic creativity

Students in the Culinary Arts program get the unique opportunity to train in a culinary institute environment. Prepare, present and serve food to the public while learning all aspects of the food service industry. Gain practical experience planning menus and meals and operating The Neon Lime, our student run restaurant that is open to the public. Students are encouraged to further their training at the post-secondary level. *Students can potentially earn college credits in this program.*

## **LAW & PUBLIC SAFETY CAREER PATH**

### **Fire Academy (FIRE)**

**3 credits/year**

Prerequisite: Junior status

Students in this program will learn the academics, physical skills, and employability skills to better prepare them for a career in firefighting as well as entry level EMS skills. Students will be instructed in fire behavior, building construction, search and rescue, hose and fire streams, ground ladders, handling and care of physical evidence, first aid and CPR, EMT basic skills, medical emergencies, trauma and advanced airway management. *Students can potentially earn college credits in this program.*

### **Law & Criminal Justice (LCJ)**

**3 credits/year**

Prerequisite: Junior status

The Law & Criminal Justice program at Portage Lakes Career Center is committed to providing students with the quality education and training needed to perform effectively in a wide variety of career positions within the criminal justice and legal fields. Training will focus on the knowledge and enforcement of the law and the protection of life and property in both the public and private sectors. Law & Criminal Justice students need to be honest, respectful, caring, have good judgement, and be physically fit. They should also be able to work in a team environment with minimal supervision. All students in this program must successfully pass a drug screen. *Students can potentially earn college credits in this program.*



## **TRANSPORTATION SYSTEMS CAREER PATH**

### **Automotive Technology (AUTO)**

**3 credits/year**

Prerequisite: Junior status

In the Automotive Technology program, students gain knowledge and experience in the challenging field of automotive service and repair. This is an Automotive Service Excellence (ASE) nationally certified program, where students learn mechanical service repair and diagnostics on cars and light trucks. Practical experience is gained in the areas of brakes, electrical, steering, and suspension systems and engine performance. ***Students can potentially earn college credits in this program.***

## **CONSTRUCTION TECHNOLOGIES CAREER PATH**

### **Building Trades (BT)**

**3 credits/year**

Prerequisite: Junior status

This program provides organized learning experiences in the classroom and lab in blueprint reading, carpentry, masonry, residential electrical wiring, plumbing, drywall, roofing, siding, ceramic tile, painting and minor repairs. Students will be instructed in the correct and safe use of power tool operation and construction procedures. This program will prepare students for a professional career in construction, property management, and the remodeling industry. ***Students can potentially earn college credits in this program.***

### **Electrical Technology (ELE)**

**3 credits/year**

Prerequisite: Junior status

The skills developed and the knowledge gained in this program will enable a student to be employed as an electrician apprentice (construction & industrial), factory maintenance worker or electrical assembler. Students in PLCC's Electrical Trades program will learn to install, service, maintain and troubleshoot residential, commercial and industrial wiring systems. Students ***can potentially earn college credits in this program.***

### **Heating, Ventilation, & Air Conditioning (HVAC)**

**3 credits/year**

Prerequisite: Junior status

This program will prepare students for careers in residential, commercial and industrial climate control systems. Students in HVACR will learn how to design, install, maintain, and repair the equipment used to provide environmental indoor air quality in homes and buildings. ***Students can potentially earn college credits in this program.***

### **Plumbing & Pipefitting (P&P)**

**3 credits/year**

Prerequisite: Junior status

Plumbers and pipefitters are both highly trained professionals able to work in residential, commercial and industrial locations. This program focuses on understanding the physical principles and general methods including the materials, tools and equipment used in the hands-on field of plumbing and pipefitting. Students also learn how to operate basic construction site equipment like a skid steer, excavator, telehandler, boom lift and scissor lift. ***Students can potentially earn college credits in this program.***

## **ENGINEERING & MANUFACTURING CAREER PATH**

### **Engineering, Robotics & Manufacturing Academy (ERMA)**

**3 credits/year**

Prerequisite: Junior status

In the Engineering, Robotics & Manufacturing ACADEMY, students engage in the design, prototyping and manufacturing of products & devices that drive modern life. We prepare students to enter a number of professional fields including engineering, CNC machining, product design, manufacturing and more. Students can expect to be learning the skills engineers, machinists and technicians use to identify, solve and create solutions to the world's problems. *Students can potentially earn college credits in this program.*

## **INFORMATION & TECHNOLOGY CAREER PATH**

### **Cyber Academy (CYBER)**

**3 credits/year**

Prerequisite: Junior Status

“Cyber” means computing! Our program includes several fields in Computer Science: computer programming, web design, and web development. Our Cyber Academy program offers students an introduction to some of the fastest growing and well-paying professions in the world. Software developers write and test the code that tells computers what to do. Full stack web designers and developers allow us to interact with the internet. Join us as we explore the use of technology in the modern world. *Students can potentially earn college credits in this program.*

## **MANUFACTURING CAREER PATH**

### **Welding (WELD)**

**3 credits/year**

Prerequisite: Junior status

Specialized classroom and shop experiences teach students in this program all types of metal welding, brazing and flame cutting. Students will learn the properties of metals, blueprint reading, electrical principles, welding symbols and mechanical drawing work. These skills can be used to become a fabricator welder, construction welder, repair welder, blueprint reader, and machine operator. *Students can potentially earn college credits in this program.*

## **SPECIAL ADMISSIONS PROGRAM**

### **Job Training Program (JTP)**

**3 credits/year**

Prerequisite: Junior Status or higher, Special Considerations

The Job Training program (JTP) at PLCC is a special admissions program for students who have barriers to work or who may need additional support in the workplace. JTP provides students with transferable vocational education and relevant social and soft skill development as part of their Individualized Education Program (IEP), improving future opportunities for competitive or supported employment and/or post-secondary education. JTP will provide students with real world, hands-on training through a unique opportunity to explore a number of different career paths. The program is customized to fit the needs and preferences of those participating.

## **EARLY COLLEGE HIGH SCHOOL**

### **Early College High School (ECHS) – earn your Associate Degree early and free!**

Prerequisites: Junior status/Additional application & acceptance process/Full day status

If you are eager for a challenge and prepared to tackle college-level academics in high school, ECHS may be a perfect fit. Fulfill your academic requirements and get a head start on a FREE 2-year Associate Degree from the University of Akron's Applied Science and Technology. Students who are accepted into this option will earn technical credits through their career technical program and complete their academic general education covered by Portage Lakes Career Center. Each Associate Degree has a path to a Bachelor's Degree and additional graduate education opportunities at the University of Akron and other institutions across Ohio.

## **BUSINESS, MANAGEMENT & ADMINISTRATION CAREER PATH**

### **Cooperative Business Education (CBE)**

**5 credits**

Prerequisite: Senior status, offered to *GREEN HIGH SCHOOL students only*

This senior-only cooperative education program provides students with the basic knowledge of business principles and practices and prepares them for employment in the business field. Employment at a local job site for at least 15 hours per week is a requirement of this program. Students must provide their own transportation to and from the job site. ***Students can potentially earn college credits in this program.***