Dear Students and Parents/Guardians:

It is with great pride that the faculty and staff of Portland High School present to you the courses that are listed and discussed in this handbook. It is our goal to present a program that allows every student the opportunity to be challenged, to pursue his/her interests, and to realize his/her potential.

Please read this handbook carefully. Each course listing is accompanied by a detailed description which will aid you in your selection of courses.

Sections of this handbook detail valuable information about graduation requirements and various options that are available so students can gain the necessary credits to graduate from Portland High School. It also provides information about the Educational Development Plan (EDP) process, adding and dropping a class, dual enrollment, Early Middle College, as well as other academic policies.

It is a pleasure for me to work with the wonderful faculty who will facilitate student learning. It is also my pleasure to be associated with a student body that values education and is dynamic and positive. I am available to discuss your experience at Portland High School any time you need me.

I extend to you my best wishes for a successful and productive year.

Sincerely,

Christine Rockey
Principal

Portland Public Schools Mission Statement

“The mission of Portland Public Schools, in partnership with the community, is to educate citizens who demonstrate the academic, team work, and personal management skills needed to function effectively in a global society.”

Raider PRIDE
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*Not all classes are offered each year. Availability depends on resources and demand.*
Portland High School Staff

Office Staff:
Mrs. Blaschka, Principal’s Office
Mrs. Jensen, Student Service Office
Mrs. Hager, Athletic Office

Administrative Staff:
Mrs. Rockey, Principal
Mr. Sheppard, Dean of Students
Mr. Veale, Athletic Director

Counseling Staff:
Ms. Edlund
Ms. Patterson

Support Staff:
Mr. Bennett, Custodian
Ms. Enright, School Psychologist
Mrs. Goodwin, School Social Worker
Mr. Lowery, Media Center Specialist
Mr. Martin, Instructional Aide
Mrs. Manshum, Instructional Aide
Mr. Simpson, Instructional Aide

Teaching Staff:
Ms. Brehmer, Special Education
Mr. Brooks, Math
Mrs. Brown, Science
Mrs. Coyne, Math/Science
Ms. Davids, English/Yearbook
Mrs. Davlin, Math/Science
Mrs. DeGroot, Family Consumer Science
Ms. Firehammer, Social Studies
Mr. Fuller, English
Mrs. Getchell, English
Mrs. Goeckel, Special Education
Mrs. Gorzen, Art
Mrs. Grasman, Science
Mrs. Green, Math
Mr. Green, Science
Mrs. Honzowitz, Science/Technology
Mr. Jones, Math
Ms. Lowe, French/Government
Mr. Lupton, Special Education
Mrs. Novara, Special Education
Mr. Novara, Math
Mrs. Pohl, English/Social Studies
Mrs. Polasek, English/Drama/Communications
Mr. Pulling, Physical Education/Health
Mrs. Rockey, Social Studies
Mrs. Rodriguez, English
Mr. Scheurer, English/Social Studies
Mr. Sulecki, Band/Music
Ms. Welch, Spanish
Mr. White, Physical Education/Math
Scheduling Information-Adding/Dropping Classes

All requests for schedule changes must be initiated with the counselor.

Students may change their schedule for the following reasons:

- a more appropriate level class is recommended by the teacher.
- the student was scheduled into a class already completed.
- the program or class is being dropped or added by the administration.
- the student has fewer than six classes printed on his/her schedule.
- the student does not have the prerequisites for a course.

Students will not be given the option to change their schedules after the posted add/drop period unless they have the approval of a counselor or administrator.

If a student drops a class after the posted add/drop period, the student may receive a “Withdraw Pass or Fail” semester grade for the class.

Students who stop attending class without an approved schedule change will be considered unexcused.

Students committing to a year long class are expected to stay for the full year unless it is mutually agreed upon by both the teacher and student that he/she be allowed to drop the class at the semester time. Parental approval is required to drop a required class.
Graduation Requirements and Academic Standards

1. A student must earn a minimum of twenty-two (22) credits in order to graduate.
2. Required credits for issuance of a diploma and graduation:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Language Arts</td>
<td>4.0</td>
</tr>
<tr>
<td>Communications</td>
<td>0.5</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4.0</td>
</tr>
<tr>
<td>Science</td>
<td>3.0</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3.0</td>
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<tr>
<td>Information Technology</td>
<td>0.5</td>
</tr>
<tr>
<td>Physical Education/Health</td>
<td>1.0</td>
</tr>
<tr>
<td>Visual, Performing and Applied Arts</td>
<td>1.0</td>
</tr>
<tr>
<td>World Language</td>
<td>2.0</td>
</tr>
<tr>
<td>Online Learning Experience</td>
<td>Transcript Notation</td>
</tr>
</tbody>
</table>

   - Must include ELA 9, ELA 10, ELA 11 or equivalent, and ELA 12 or equivalent.
   - Must include Algebra I, Geometry, Algebra II, and one additional mathematics credit.
   - The student MUST complete a Mathematics course in his/her senior year.
   - Must include Earth Science/Physical Science, Biology, and Chemistry or Physics or Applied Physics.
   - Must include Computer Applications or Intro to Computer Science.

3. Successful completion of a full-year class is equal to one credit. A semester class is equal to one-half credit. In order to accrue credit for a class a student must successfully complete the class with a minimum grade of “D-” or pass the final exam with a 77% or higher.
4. All classes shall conclude with an “End of Course Assessment/Exam” that will constitute 20 percent of the student’s final grade towards credit for the class.
5. All students are to enroll in and attend 6 class hours per day.
6. A student may be granted PHS credit for credits earned from other institutions based upon review by the counselor and administrator.
7. A student must participate in good faith in Michigan Merit Examination (MME) testing in order to participate in commencement exercises for his or her graduating class.

Personal Curriculum
The Michigan Merit Curriculum legislation allows a parent, school personnel, student age 18 or older, or emancipated student to request a “personal curriculum” for a pupil that modifies certain requirements of the Michigan Merit Standard requirements. The personal curriculum must be developed by the pupil, at least one of his or her parents or his or her guardian, and a teacher or counselor. Revisions to a personal curriculum may be made if they are developed and agreed to in the same manner as the original personal curriculum.

The personal curriculum must incorporate as much of the subject matter content expectations of the Michigan Merit Standard as is practicable; establish measurable goals that the pupil must achieve while enrolled in high school; provide a method to evaluate whether he or she has met those goals; and be aligned to the pupil’s Educational Development Plan (EDP) which a pupil must develop before entering high school.

The pupil’s parent or legal guardian and the superintendent of the school district or his or her designee must agree to the personal curriculum before it takes effect.

Career Pathways
There are six career pathways with a professional and technical path for each. The pathways are: Art & Communication, Business, Management, Marketing & Technology, Engineering/Manufacturing, Health Sciences, Natural Resources & Agri-science, and Human Services. Some classes fit better into one pathway than another. See your guidance counselor for information regarding career paths.
Testing Out

The Board of Education of Portland Public Schools acknowledges that some students may have acquired knowledge or skills at levels that would allow them to demonstrate they meet or exceed the content expectations associated with a subject area. Portland High School students may request an opportunity to demonstrate such mastery either through a written examination or other culminating experience normally reserved for students upon completion of a class, referred to as “testing out”. It is the intent of the Board to extend to all students the opportunity to demonstrate mastery in a range of courses offered at Portland High School, and to allow for the most efficient use of instructional time.

- This policy will apply equally to all students of Portland High School.
- No letter grade shall be earned by testing out of a course; the notation of successful completion and earning of credit will be noted on the student’s transcript.
- Credit earned through this provision shall be counted toward graduation.
- Credits earned through testing out shall not be included in a computation of grade point average for any purpose.
- A student may not test out of a class in which he/she is currently taking or has been previously enrolled.
- To earn credit the student must achieve a grade of at least a C+ on each end of semester assessment.
- After earning credit in a course via testing out, the student may not receive credit thereafter for a course lower in the sequence in the same subject area.
- The following will be the allowable times in which a student may attempt to test out of a class:
  1. The final exam period at the end of the first semester.
  2. The final exam period at the end of the second semester.
  3. One day set aside prior to the start of school in the fall.
- A student who wishes to attempt to test out of a class must file a request ten (10) days before the end of the semester for 1 and 2 above, or test out prior to the first day of classes (3 above).
- Students who wish to attempt to “test out” of a class must meet with a building administrator or counselor to discuss options.
- A student may only attempt to test out of each class one time.
Portland Early College Program

What is the Portland Early College Program (PECP)?
The Portland Early College Program is a dual enrollment program that allows students to stay with Portland Public Schools for a 5th year to earn college credit. While in the program students receive extra support from our staff, preferential scheduling, and both high school and college credit. Signing up for this program can start as early as the 9th grade and up to the start of their 11th grade school year. The district covers all tuition and books for these classes. There is no cost to families that are part of this Program.

Why participate in the program?
Students participating in the PECP program will receive free tuition and books during their participation in the program. By the time PECP students leave high school they will have the opportunity to earn up to an associate's degree or 60 semester credits towards an associate's or bachelor's degree/ Students are allowed to participate in all high school activities including sports, clubs, and dances during their 9th-12th grade years. PECP students will be offered support services throughout the duration of the program.

What are the student requirements
Each student will be required to complete the Early Middle College Association Technical Certificate requirements which includes: Minimum completion of 15 college credits with 2.0 G.P.A or higher. 100 hours of verified community service and/or college/career coursework.

How do I get signed up?
Students interested in the program should talk to their school counselor or the Post Secondary Coordinator about this amazing opportunity!

Contact Information:
Jason Haid, Post Secondary Coordinator
jhaid@portlandk12.org
617-647-2981
Educational Developmental Plans

Students will create and annually update their Educational Development Plan (EDP). The EDP is an action plan regarding course selection that focuses the students toward their future and lifelong learning. Elements of the EDP include: personal data, career goals, education goals, assessment results, career exploration, course selection, and parental endorsement. Since each student will have an online account, the EDP may be accessed at any time by visiting www.xello.com and entering a student username and password, available from the Counseling Office. Students are encouraged to work with their school counselor to ensure accurate completion of their EDP. Each year, students are brought to computer labs in groups to update their EDPs. At the end of each activity, students are asked to use the email tool to invite a parent or guardian to review the EDP.

The following explanation of EDPs was drawn from the Michigan Department of Education publication EDP Fundamentals: Guidelines for the Use of Educational Development Plans (EDPs), Michigan Department of Education, 2009:

**Why Do Students Need an Education Development Plan (EDP)?**
The Michigan Merit Curriculum (MMC) legislation (P.A. 141 of 2007) states that “The board of a school district or board of directors of a public school academy shall ensure that each pupil in Grade 7 is provided with the opportunity to develop an EDP, and that each pupil has developed an EDP before he or she begins high school. An EDP shall be developed by the pupil under the supervision of the pupil’s school counselor or another designee qualified and selected by the high school principal and shall be based on a career pathways program or similar career exploration program.

All students are required to develop an EDP with guidance from school advisors. When applicable, parents and community contacts should also be included. EDPs are “living” documents, updated as student interests and abilities become more obvious and focused.

**Developing an EDP**
The first step in developing an individualized approach to learning is the EDP. An EDP documents an ongoing process in which a learner identifies both career goals and a plan of action to achieve them. The EDP does not take the place of either an Individualized Education Program (IEP) or a Personal Curriculum (PC) modification.

By preparing the initial EDP in middle school, students can better plan their high school curriculum to meet their post-school goals. The EDP is a secondary/postsecondary planning tool to direct the student’s educational plan and career planning activities. Schools use paper EDPs, electronic EDPs, or Web based systems such as Career Cruising to help students write their education and career goals, including strategies and high school classes that will help them reach these goals.

**If you have any question about this process, please see your school counselor.**
Educational Developmental Plans Continued

The Essential Elements for an EDP

No specific form or format is required for an EDP. Schools may design EDPs that best meet their local needs. The following are some essential elements to include in any EDP:

*Personal Information: This usually includes the student’s name, date of birth, and grade level. The EDP is a learning and planning document and should be maintained with the same policies governing other student records, as required in the Family Education Rights and Privacy Act (FERPA).

*Career Goal(s): Each student should identify a career pathway and goals for achieving success. Goals may be more general in middle school and become specific as the student progresses through high school.

*Educational/Training Goal(s): Each student should identify the level of educational preparation needed to meet his or her career goal. This encourages students to think beyond high school graduation and set long-range goals.

*Assessment Results: The student may summarize the results of various assessments, highlighting information that is relevant to making career decisions. Assessment data may include formal and informal data such as: career interest surveys, aptitude testing, informal observations, student projects or hobbies, academic achievement, values assessments, and extracurricular activities. From this information, students will be able to identify individual interests and strengths. Students may also set improvement goals. Over time, students will be able to use this information to confirm career decisions or adjust goals.

*Plan(s) of Action: The action plan should include high school course selections, projected completion dates, desired degree, certificate or other credential, timeline for college application, financial assistance deadlines, and employment opportunities. Activities may include volunteer or work-related experiences including job shadowing, mentorship programs in community businesses, or part-time employment in areas related to the student’s career goal(s). The scope of student planning can include career awareness or exploration activities, work-based activities, and course selections that will prepare her/him for greater understanding of career options and achievement of career goals.

Students may also investigate educational programs available within the school or college curriculum that will provide opportunities to become more aware and skilled in a career pathway (e.g., an internship in a community agency or intensive project-based learning in a particular course). The student should also take the time to explore the opportunities for earning college credit while still in high school through Advanced Placement (AP) courses, dual enrollment, International Baccalaureate (IB) and other programs.

*Parent/Guardian Consultation/Endorsement: Parents/guardians should have the opportunity to review and endorse their child’s EDP. This will give parents/guardians access to information about emerging career and employment trends so they can help their children to prepare for the future. Parents/guardians may also need to discuss assessment results or have assistance interpreting them. Students should be encouraged to discuss career-related issues with their parents/guardians and share their goals and action plans.

What Happens After the EDP is Written?
A student’s EDP should be reviewed and updated on at least an annual basis. An EDP process could also include yearly work samples that document the student’s progress toward anticipated goals and accomplishments. The school must establish times to annually review EDPs and update them as students choose and change high school courses or career pathways.
National Collegiate Athletic Association (NCAA)
National Association of Intercollegiate Athletics (NAIA)
Steps to Achieving Your Eligibility

The NCAA and NAIA Eligibility Centers have designed their websites with you, the student-athlete, in mind. It is where you will find the tools and information you will need to begin your college experience as a student-athlete.

Freshmen and Sophomores
* Start planning now!
* Work hard to get the best grades possible.
* Take classes that match your high school’s list of NCAA courses. The NCAA Eligibility Center will use only approved core courses to certify your initial eligibility. (See below on how to access this list.)
* If you fall behind use summer school sessions before graduation to catch up.

Juniors
* At the beginning of your junior year, complete your online registration at www.eligibilitycenter.org or www.naia.org
* When you register to take the SAT or ACT, use the NCAA Eligibility Center code “9999” as a score recipient. Doing this sends your official score directly to the NCAA Eligibility Center.
* Double check to make sure the courses you have taken match your school’s list of NCAA courses.
* Through Parchment Transcript Service on the Portland Public Schools (PPS) website under Request My Transcript, send an official transcript to the NCAA Eligibility Center. NCAA needs official transcripts from all high schools attended.
** (The NCAA Eligibility Center does NOT accept faxed transcripts or test scores.)
* Before registering for classes for your senior year, check with your high school counselor to determine the amount of core courses that you need to complete your senior year.

Seniors
* Take the ACT and/or SAT again, if necessary. The NCAA Eligibility Center will use the best scores from each section of the ACT or SAT to determine your best cumulative score.
* Continue to take college-prep courses.
* Check the courses you have taken to match your school’s list of NCAA courses.
* Review your amateurism responses and request final amateurism certification on or after April 1 (for fall enrollees) or October 1 (for Spring enrollees).
* Continue to work hard to get the best grades possible.
* Graduate on time (in eight academic semesters).
* After graduation, request your final transcript through Parchment Transcript Service on the PPS website under Request My Transcript and have it sent to the NCAA Eligibility Center with proof of graduation.

Eligibility Center Registration:
Online Registration
To register with the NCAA Eligibility Center:
Go online to www.eligibilitycenter.org

Online Registration
To register with the NAIA Eligibility Center:
Go online to www.naia.org

Division I Examples: Central Michigan University, Eastern Michigan University, Michigan State University, Oakland University, University of Detroit Mercy, University of Michigan, and Western Michigan University.

Division II Examples: Ferris State University, Grand Valley State University, Hillsdale College, Lake Superior State University, Michigan Tech University, Northern Michigan University, Northwood University, Saginaw Valley State University, and Wayne State University.

NAIA Eligibility Center Registraton for Division III Colleges: Michigan NAIA Schools: Aquinas College, Cleary University, Concordia University, Cornerstone University, Lawrence Technological University, Madonna University, Rochester College, Siena Heights University, Spring Arbor University, Univeristy of Michigan-Dearborn
English/Language Arts

1091/1092 English Language Arts 9

Required to graduate

This course focuses on communication skills, forms of literature, writing, informational and narrative reading, and English language usage. Academic, personal management, and teamwork skills are integrated into the course.

1101/1102 English Language Arts 10

Year 10

Prerequisite: English 9; Required to graduate

This required course is designed to continue the development of language arts skills in reading, writing, speaking, listening and organizing. Reading selections will focus on contemporary American literature.

1111/1112 English Language Arts 11

Year 11

Prerequisite: English 10

Option of one English 11 level course required to graduate

This course is designed to enhance students’ reading, writing, and vocabulary skills using literature as a vehicle. In accomplishing these goals, students will also improve their critical thinking and communication skills. The course also focuses on standardized testing, college applications, and English language usage.

1131/1132 Honors English Language Arts 11

Year 11

Prerequisite: English 10, Parent/Teacher Recommendation

Option of one English 11 level course required to graduate

This course is designed to enhance students’ reading, writing, and vocabulary skills using literature as a vehicle. In accomplishing these goals, students will also improve their critical thinking and communication skills. The course also focuses on analysis of American Literature, standardized testing, college applications, and English language usage. Classwork will be at or above performance standards.

111/1122 English Language Arts 12

Year 12

Prerequisite: Grade 11 English

Option of one English 12 level course required to graduate

As students become more proficient and self-confident communicators, they will be encouraged to develop personal writing styles. Through communication skills they will set goals and make career choices. A variety of communication forms will be used to respond to class activities.

1141/1142 Honors English 12

Year 12

Prerequisite: Grade 11 English, Parent/Teacher Recommendation

Option of one English 12 level course required to graduate

This course is designed to help students think logically and critically, and develop a personal writing style. Through reading, discussion, analysis, writing, and reflection, students will study the universal themes of world literature. Classwork will be at or above performance standards.

1151/1152 AP Language and Composition

Year 11-12

Prerequisite: Teacher Recommendation

In preparation for the AP exam, students will read, respond to, interpret, and evaluate literature (primarily English lit.) from all periods. Students will write both formally and informally with formal emphasis on literary analysis, interpretation, criticism, and evaluation. Informal writing tasks may include response and reaction papers, reading journals, collaborative writing, and literary analysis/criticism. Students will regularly write timed, in-class essays on given prompts. This course will often consist of college-level reading and tasks. It is essential that students in the AP Lit./Comp. course be prepared to read, compose and perform tasks that are beyond the standard and even college-preparatory level. Because this course is designed to substitute for one semester of college English through the successful completion of the Advanced Placement examination administered in May of each year, it is required that students take the AP Exam (approx. $90). There is a summer reading requirement assigned after registration, due the first day of class in the fall. Students must provide or purchase supplementary texts/novels and a workbook (approx. $30 total).

1171/1172 Yearbook *

Semester/Year 10-12

The course is designed to teach students journalistic writing, photography, and theme building. Students will also learn about sales and advertising and learn to use computer publication programs including Adobe Photoshop. The skills will be used to create the Portland High School Yearbook, The Looking Glass. Students should expect to work outside of class attending events, interviewing, taking photos, and advertising.

1190 Communications *

Semester 9-12

Required to graduate

Students will analyze verbal and nonverbal communication strategies, examining communications theory from interpersonal communications to mass communications. Effective speaking and listening skills will be emphasized.

* Satisfies MMC Visual, Performing and Applied Arts credit required to graduate.
Mathematics

2091/2092 Algebra I

Year: 9-12
Required to graduate

This course is designed to allow students to apply geometric concepts in describing and answering questions about natural, physical and social phenomena. Students will work with: congruence and similarity, points, lines and angles, properties of polygons, and transformations.

2101/2102 Geometry

Year: 9-12
Prerequisite: Algebra I; Required to graduate

2111/2112 Algebra II

Year: 9-12
Prerequisite: Algebra I and Geometry; Required to graduate

2121/2122 Pre-Calculus & Discrete Mathematics

Year: 11-12
Prerequisite: Algebra II

2131/2132 AP Calculus

Year: 12
Prerequisite: Pre-Calculus or Instructor Recommendation

2140 Financial Algebra

Year: 12
Prerequisite: Algebra II

2150 Basic Statistics

Year: 12
Prerequisite: Algebra II

Statistics affect all aspects of our lives. This one-semester course is designed to introduce students to basic statistical concepts through discussions, examples, exercises, and projects. Upon completion of this course, it is expected that students will have mastered organizing data with charts and graphs, working with averages and correlations between items and probability.

Information Technology

6090 Introduction to Computer Science

Year: 9-12
Required to graduate

This introductory computer science course designed for all students takes a wide lens on computer science by covering topics such as programming, physical computing, HTML/CSS, and data. The course empowers students to create authentic artifacts (websites, apps, games, and physical computing devices) and engage with computer science as a medium for creativity, communication, problem solving, and fun. Note: This course will count towards the 0.5 credit graduation requirement.

6151/6152 AP Computer Science Principles

Year: 10-12
Prerequisites: Successful competition of Algebra I *

An entry level course that introduces students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the internet, building apps, big data, digital privacy and security, and societal impacts of computing. This course assumes no prior knowledge of computing and is designed to support students that are new to the discipline. Students must pass first semester AP CSP to continue with the second semester of the course. Successful Completion of both semesters will prepare students for the optional AP Computer Science Principles Exam.

6095 Programming Design

Year: 10-12
Prerequisite: Successful completion of Introduction to Computer Science

This elective course is designed for all students who are interested in applying computer science principles to program design. During the course of the semester students will be exploring several different programming languages (javascript, html, python, etc) to design programs that solve real-world problems (of their choosing). Topics include but are not limited to: Web development, App Creation, 3D printing & Design, and Robotics.

* Students who successfully complete Introduction to Computer Science can register for AP Computer Science during 2nd semester in the future pending instructor approval.

** Satisfies MMC Mathematics credit required to graduate

* Satisfies MMC Visual, Performing and Applied Arts credit required to graduate.
Science

3091 Earth Science  
**Semester 9**
**Required to graduate**

This semester-long course is designed to give the student an in depth view of the more complex principles of Earth Science including Earth System Science, Historical Geology, Meteorology, and Astronomy.

3092 Physical Science  
**Semester 9**
**Required to graduate**

This semester-long course is the study of the things around you. Physical Science can be divided into two areas. One area is chemistry. Chemistry is the study of matter and how it changes. A second area of physical science is physics. Physics is the study of energy and how it acts with matter. This semester-long course includes topics such as the metric system, properties of matter, the structure of matter, classifying elements, compounds, how matter changes, motion, work and machines, heat, sound and light, electricity, and magnets and electromagnetism.

3101/3102 Biology  
**Year 10**
**Required to graduate**

This course presents an overview of the world of living things. The structure, function, and interaction of one-celled organisms, plants and animals are stressed. Also studied is man’s influence on the delicate balance of the earth through ecological relationships.

3161-3162 Human Anatomy Physiology  
**Year 11-12**
**Prerequisite: Biology**

This course focuses on human anatomy and physiology. Human systems will be explored in-depth, with an intense study of system structures, functions, and diseases associated with those systems. Chemistry is a highly suggested prerequisite or can be taken concurrently but is not a necessity for this class.

3111/3112 Chemistry*  
**Year 11-12**
**Prerequisite: Algebra I, Algebra II concurrently.**

This course introduces the principles of inorganic chemistry, including: energy and matter, atomic structure, electron configuration, chemical formulas and bonding, structure of compounds, stoichiometry, gas laws, solutions, and acids-bases-salts.

3141/3142 Advanced Chemistry  
**Semester 11-12**
**Prerequisite: Chemistry**

Advanced Chemistry builds on the concepts presented in the first year Chemistry course and includes topics such as Gas Laws, Thermodynamics, Kinetics, Equilibrium, Oxidation-Reduction, Electrochemistry, Nuclear Chemistry, Organic Chemistry. This course will also involve more extensive laboratory work in preparation for college chemistry and/or the AP Chemistry exam. Completion of the AP exam is not mandatory for students taking this course.

3151/3152 Honors Chemistry*  
**Year 11-12**
**Prerequisite: Algebra II recommended concurrently.**

Honors Chemistry is designed for those students with a potential career interest or plan to study science beyond high school. In addition to learning about the principles of inorganic chemistry as covered in Chemistry, student in Honors Chemistry will learn the basic concepts involved in organic chemistry, biochemistry, and science career pathways. Students will be provided lab experiences that will better prepare the student for post-high school science coursework. **This course is taken instead of Chemistry.**

3121/3122 Physics*  
**Year 11-12**
**Prerequisite: Algebra II**

This year long course is the study of motion and the interaction of matter and energy in nature. The primary emphasis of content is to quantitatively define specific physical quantities and demonstrate how they interact in an everyday setting.

*Option of a physics or chemistry class to graduate

3170 Astronomy  
**Semester 10-12**

Astronomy is a natural science that studies celestial objects and phenomena. It uses mathematics, physics, and chemistry in order to explain their origin and evolution. Objects of interest include planets, moons, stars, nebulae, galaxies, and comets. Relevant phenomena include supernova explosions, gamma ray bursts, quasars, blazars, pulsars, and cosmic microwave background radiation. More generally, astronomy studies everything that originates outside Earth’s atmosphere.

3180 Forensic Science  
**Semester 11-12**

**Prerequisite: Biology**

The design of this course is to introduce students to the chemical, biological and physical principles involved in the investigations of physical evidence in criminal cases. In addition, students will become familiar with the laws and procedures of a criminalist. Topics introduced include: Crime Scene, Physical Evidence, Fingerprint Analysis, Ballistics and Firearms, Forensic Toxicology, and Arson. Forensic Toxicology, Physical Evidence, Hair, Fibers and Paint, Fingerprint.

3131/3132 Applied Physics*  
**Year 11-12**
**Prerequisite: Physical Science**

Applied Physics is a lab centered study of the physical world. This class utilizes basic inquiry techniques to introduce topics to students through laboratory work. Students will be directed to perform certain experiments without them knowing how the data analysis should turn out to help them construct their knowledge. Topics will include: Motion, Projectiles, Newton’s Laws, Friction, Linear Motion, Circular Motion, Universal Gravitation, Rotation, Work, Power, and Energy, Electrical Circuits, Magnetism, Electromagnetism, Optics, Waves, etc.

3192 Environmental Science: Ecosystems  
**Semester 11-12**

This course is designed to give students a hands on learning experience while introducing them to new concepts dealing with the environment and Earth’s resources. Using hand on lessons and labs, students will be able to explore, examine, and explain natural processes in all parts of the Earth Systems. Environmental Science I topics include: Environmental Issues, Soil Science & Land Use, Freshwater Resources, Ecological Biodiversity, Human Population Dynamics.

3191 Environmental Science: Resources  
**Semester 11-12**

This course is designed to give students a hands-on learning experience while introducing them to new concepts dealing with the environment and Earth’s resources. Using hand-on lessons and labs, students will be able to explore, examine, and explain natural processes in all parts of the Earth System. Environmental Science II topics include: Energy Resources & Consumption, Pollution and its Effects, Sustainability, Conservation of Natural Resources, Global changes.

3200 Science Olympiad  
**Semester 9-12**

Science Olympiad is designed for students to explore and apply scientific knowledge and concepts for team competition. Projects involve scientific problem solving, real-life applications of science concepts, and research and exploration of science concepts pertaining to motion, heat, gravity, mass, air resistance, engineering and design, and more. This course will also help students learn how to problem solve as a scientific team in order to complete tasks efficiently and successfully. This course will be used to prepare for Science Olympiad competitions.

3105/3106 AP Biology  
**Year 11-12**
**Prerequisite: Biology**

A full-year study of biology at a college level. The course is designed to meet all college board requirements for advanced placement. Major themes covered are the cell, photosynthesis, glucose metabolism, genetics, evolution, systematics, plant anatomy and physiology, animal anatomy and physiology, and ecology. Students who successfully complete all of the course are eligible to take the advanced placement biology exam for college credit. Chemistry is a highly suggested prerequisite or can be taken concurrently but is not necessary for success in this course.
### Social Studies

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<td>4091/4092</td>
<td>World History</td>
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<td>4101/4102</td>
<td>United States History</td>
<td>Year 10</td>
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<td>4120</td>
<td>World Affairs</td>
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<td>4130</td>
<td>Social Psychology</td>
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<td>Introduction to Psychology</td>
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<td>4161/4162</td>
<td>AP Government and Politics</td>
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<td>4171/4172</td>
<td>AP US History</td>
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#### 4091/4092 World History
**Required to graduate**
This required class looks at World History through the major social benchmarks in history, such as the Middle Ages, the Renaissance Period, Reformation, the Scientific Revolution, and Imperialism and World Conflict. Students will be able to recognize names of famous individuals and explain their significance in history, describe key political, economic and religious events, identify and explain key terms ascribed to a time period, and identify and explain maps, artifacts, and works of art.

#### 4101/4102 United States History
**Required to graduate**
This required course looks at U.S. history from 1898 to the present. Students will be able to know and understand the basic facts and events from each period of U.S. history and evaluate their roles in that history; apply the lessons of U.S. history to any understanding of the present conditions of the United States and the world; and improve critical and creative thinking skills in relation to U.S. history topics.

#### 4120 World Affairs
**Prerequisite: U.S. History**
This course is designed to increase student awareness of the important persons, places, and events that make up the news. Utilizing current topics and issues, students will be able to: create an interest in the importance of current events; formulate and defend opinions about current topics, and improve critical thinking skills in relation to world affairs.

#### 4130 Social Psychology
**Prerequisite: 10th graders with Instructor Approval**
This course focuses on thoughts and behavior of individuals and how the interactions of individuals create social structures with properties unique to the groups and relationships that results. The emphasis is threefold: formation of primary individual attitudes and perceptions; nature of interpersonal affiliations and social exchange; and process of group construction and intergroup/intragroup relations.

#### 4150 Introduction to Psychology
**Prerequisite: 10th graders with Instructor Approval**
This course is designed as an introduction to the various aspects of the science of human behavior, including the study of theories of psychological growth and development, personality, mental health, substance abuse, and other areas of current concern.

#### 4161/4162 AP Government and Politics
**Prerequisites:** There are no prerequisite course; however, students should read at college-level and write grammatically correct.
AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behavior. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they will complete a political science research or applied civics project.

#### 4171/4172 AP US History
**Prerequisites:** There are no prerequisite course; however, students should read at college-level and write grammatically correct.
Study the cultural, economic, political, and social developments that have shaped the United States from c. 1491 to the present. You’ll analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments. Students will learn how to evaluate primary sources, analyze claims, evidence, come up with claims of their own, and put historical developments into context to make connections between them.

### Test Prep

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<td>6800</td>
<td>SAT/MME Test Prep</td>
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This course will deal with developing test taking habits that will assist students with the SAT and the MME. The class will involve study skills, reading strategies, practice tests, online activities and an SAT question of the day. Students will use KHAN Academy for a portion of this class. In this section of the class students will also develop their reasoning and thinking skills for reading, using, and creating graphs and charts.
World Language

1301/1302 Spanish I Year 9-12
Spanish I is an introductory course in the study of the Spanish language and culture. It is designed to provide the basis for proficiency in all language skills: listening, speaking, reading and writing. Learning will focus on bringing new vocabulary and grammar into meaningful communicative situations. Students will also be introduced to the culture of various Spanish-speaking countries. Group work and individual responsibility are emphasized.

1311/1312 Spanish II Year 9-12
Prerequisite: Spanish I
Spanish II continues to build on the skills acquired in Spanish I, with increased emphasis on perfecting pronunciation, listening comprehension, developing vocabulary, use of verb tenses and language structure. Students are encouraged to communicate in Spanish appropriate to their level of language acquisition whenever possible. Students will continue to learn about the cultures of Spanish-speaking countries. Group work and individual responsibility continue to be emphasized.

1321/1322 Spanish III Year 10-12
Prerequisite: Successful completion of Spanish II/instructor recommendation.
Spanish III is intended to engage students in communication with spoken and written Spanish language. Students will continue to familiarize themselves with different perspectives of the target language culture through experiences with its products and practices. Through the study of thematic vocabulary and more advanced grammatical structures, students will be able to imitate appropriate gestures, intonation, and common idiomatic expressions through social interaction. The course continues to build on the four aspects of communication: listening, speaking, reading and writing. The course is strongly recommended for students planning to continue Spanish studies after high school. Based on enrollment, Spanish III can be combined with Spanish IV or offered as independent study.

1331/1332 Spanish IV Year 11-12
Prerequisites: Successful completion of Spanish III and instructor recommendation.
Spanish IV is strongly encouraged for those students planning to continue Spanish studies after high school. Emphasis is placed on oral communication skills, accuracy of written expression, and refining listening and reading comprehension. Students are expected to communicate in Spanish whenever appropriate. Students will read a short Spanish novel with discussions and writing to conclude the experience. Cultural concepts continue to be explored. Based on enrollment sizes, Spanish IV may be combined with Spanish III, or taken as an independent study.

1401/1402 French I Year 9-12
French I is an introductory course in the study of the French language and culture. It is designed to provide the basis for proficiency in all language skills: listening, speaking, reading and writing. Learning will focus on bringing new vocabulary and grammar into meaningful communicative situations. Students will also be introduced to the culture of various French-speaking countries. Group work and individual responsibility are emphasized.

1411/1412 French II Year 9-12
Prerequisite: French I
French II continues to build on the skills acquired in French I, with increased emphasis on perfecting pronunciation, listening comprehension, developing vocabulary, use of verb tenses and language structure. Students are encouraged to communicate in French appropriate to their level of language acquisition whenever possible. Students will continue to learn about the cultures of French-speaking countries. Group work and individual responsibility continue to be emphasized.

1421/1422 French III Year 10-12
Prerequisite: Successful completion of French II/instructor recommendation.
French III is a continuation of French II with even more emphasis placed on improving/perfecting the language skills. Students are encouraged to communicate in French whenever they are in the classroom. Further emphasis is placed on reading, writing, and listening skills. The study of the French-speaking world and related culture will continue. This course is strongly suggested for students planning to continue French studies after high school.

1431-1432 French IV Year 11-12
Prerequisites: Successful completion of French III and instructor recommendation.
French IV is strongly encouraged for those students planning to continue French studies after high school. Emphasis is placed on oral communication skills, accuracy of written expression, and refining listening and reading comprehension. Students are expected to communicate in French whenever appropriate. Students will read a short French novel with discussions and writing to conclude the experience. Cultural concepts continue to be explored. Based on enrollment sizes, French IV may be combined with French III, or taken as an independent study.

Family Consumer Science

5290 MBS (Mind, Body, Soul) Semester 10-12
Mind, Body and Soul is a course that teaches the student that individual well-being involves all parts of the human body, not just physical aspects. This class will teach the student how to create a balance in their life, reduce stress and how to nurture the mental, emotional and physical needs of the whole person. The student will be expected to perform 2-3 days of different kinds of exercise per week, study nutritional information and learn how to form healthy relationships with others.

6600 Financial Management * Semester 9-12
Finance Management is designed to afford students the opportunity to develop their organizational and management skills in the area of budgeting, financial planning, and consumerism.

6620 Health and Wellness Semester 10-12
Prerequisite: Health 9
This course is designed to allow students to apply healthy living concepts to everyday situations. Health and Wellness, Stress Management, Nutrition, and Lifestyle Choices are the focus of the class.

6640 Parenting Semester 9-12
This class is designed to afford students insight into the responsibilities of parenthood and the appropriate expectations for the developmental stages of humans. Parenting and Parental Responsibilities, Principles of Growth and Development, and Human Reproduction and Childbirth are some of the topics presented in this course.

6680 Interpersonal Relationships Semester 9-12
This course is designed to give students practical tools to lead them to a better understanding of themselves and the role they play within their families and their communities. Communication and relationship skills are at the core of this semester class. A unit on sexual decision making and building lasting relationships caps the course.

6700 College and Career Exploration Semester 10-11
This course is designed to give students insight on possible career options and interviewing skills. Students will learn the process of furthering their education, including paying for, applying, and insight to schooling options. Also, students will learn the skills needed to live on their own and with others.

*Satisfies MMC math credit required to graduate.
Fine Arts

**7091/7092 Band**

**Year** 9-12

**Prerequisite:** Audition

Band activities begin approximately two weeks before school starts in the fall. Student ensemble consists of wind and percussion instruments. Color Guard membership is contingent upon audition results (auditions are held in May the previous school year.) Besides a regular school-day class hour, band students are required to perform at all home football games, Friday evening basketball games, concerts, festivals, and various parades. Participation in performances is reflected in grades and credit. Students also study music history and composition as part of the course content. Members are encouraged to perform solos and in ensemble during the school year and participate in honors band.

**7101/7102 Choir**

**Year** 9-12

Choir is a year-long course for students with a desire to become better vocalists. This course stresses and practices the importance of good vocal technique and vocal health. Students will learn music reading skills through warm-ups, technique exercises, repertoire, and performances. The PHS Choir will perform outside of the school day and attendance at these performances are reflected within the final grade. This ensemble performs a wide range of music in a wide array of languages. These include Latin, Spanish, French, German, and Italian as well as English.

**7130 Introduction to Art**

**Semester** 9-12

Introduction to Art is designed to be a class where students will go in-depth into 2-D design learning multiple techniques in drawing and painting. In this class, students will build knowledge of materials and techniques going further in-depth in developing artwork. The student will also build an understanding and ability to incorporate key principles and elements of design.

**7140 Ceramics/Sculpture**

**Semester** 9-12

**Prerequisite:** Introduction to Art

Ceramics is a class designed to explore basic building, firing, and glazing techniques in pottery. Student will try to realize the potential of their creative spirit through the medium of clay. Also, students will explore how ceramics pertains to history and its effect on cultures throughout the world.

**7150 Advanced Art**

**Semester** 10-12

**Prerequisite:** Introduction to Art

Students will expand on learned drawing and painting techniques while exploring new concepts and ideas. Emphasis will be placed on production of drawing and painting in an individual style, through the creation of both abstract and realistic works of art. Media such as pencil, pen and ink, chalk, pastel, charcoal, watercolor, oil, acrylics and mixed media will be used. A variety of surfaces such as wood board, scratchboard, and canvas will also be explored, while engaging in experiences that encompass art history, art appreciation and art criticism. Students will produce works for their portfolio.

**7160 Graphic Design**

**Semester** 9-12

An introduction to elements of design, design principles, spatial relationships, typography and imagery as they apply to practical visual solutions for logo design, web design, illustrations, and product design. This course instructs the student in graphic design skills employing traditional and digital tools, materials, and procedures employed in the communication arts industry. The focus will be on finding creative visual solutions to communication problems using technical skills.

**7200 Film Appreciation**

**Semester** 9-12

This course is designed for those who love movies and want to learn about them. Students will gain an appreciation for the roles of actors, directors and producers as they discover the human spirit reflected through film. Much more than just watching films, discussions and sharing of reviews will occur. Students will be expected to find additional films of a particular genre and then share them as they contrast and compare films.

**7300 Technical Theater**

**Semester** 9-12

This course emphasizes the technical and design aspects of theater, including, but not limited to: set, costume, lighting and sound design. It is appropriate for anyone interested in the elements of design, art, or technical theater. Students will be required to create models or drawings of their designs. Much of this can be done with common household items, although some small supplies may need to be purchased. Assessment for this class is very project based.

**7310 Drama**

**Semester** 9-12

Students will learn the basic elements of stage awareness and acting. In addition, students will adapt literary works into performances, learn to critique a performance, analyze the elements of a script/text, and perform scenes and improvisations. No previous theater experience is required.

**7350 Debate**

**Semester** 9-12

Debate is a course for the student who possesses a basic understanding of research skills and is an avid reader of political and current-event issues. Students develop critical thinking and analytical skills along with logic and impromptu speaking techniques in order to defend opposing sides of contemporary social issues. Student will focus on current policy proposals and have the chance to give their opinion based on facts.

**7400 Broadcast**

**Year** 9-12

Broadcast is a year-long media production class that will focus on creating and producing news through film. Students will learn the basics of storytelling and news production using basic video and audio production equipment. They will be asked to create individual projects that show their ability to speak publicly, and to handle film equipment successfully. Projects and responsibilities include: out of class time responsibilities (Students will be asked to stay after school for certain projects, i.e. reporting on sporting events, school events), strict timetables and assignment deadlines. Students must be able to work well with a team.

**7710 Digital Photography**

**Semester** 9-12

Digital photography is a class designed to explore the core elements of taking pictures. Students will realize the potential of their creativity through the media of photography. Students will learn about the history, aesthetics, techniques, and practice of digital photography. Students will create a final portfolio of work reflecting all they have learned.

* Satisfies MMC Visual, Performing and Applied Arts credit required to graduate.
Health & Physical Education

5090 Physical Education 9  Semester 9
Required to graduate
This required Physical Education course is designed to allow students to explore a variety of physical activities. Both team and individual activities will be emphasized in this course.

5100 Health 9  Semester 9
Required to graduate
This required freshman level course investigates critical health issues and steps to take to improve one’s health. The major areas covered include: Nutrition and Physical Activity, Alcohol, Tobacco, Drugs, Safety, Social and Emotional Health, Personal Health and Wellness, HIV prevention and Sexuality Education. Individual wellness strategies and action plans are developed, encouraging ownership of one’s own health.

5201/5202 Team Sports  Semester 9-12
Prerequisite: PE9
This class will take an in-depth approach to team sports and introduce some individual sports. More advanced skills, strategies, and rules are stressed. This class is tailored for the highly motivated and competitive physical education student.

5221/5222 Health Training  Semester 9-12
Prerequisite: PE9 and Instructor approval for Freshmen
Physical fitness is the emphasis of the course. Each student will get the opportunity to develop a training program to meet their individual needs. Use of universal gym and free weights as well as activities that will enhance students cardiovascular fitness, muscular endurance, flexibility, speed, balance, and hand-eye coordination are our major objectives.

5241/5242 Advanced Health Training  Semester 10-12
Prerequisite: PE9 and Instructor approval
Weight training and physical fitness for interscholastic athletics is the emphasis of this course. Students will enhance their strength, speed, flexibility, and agility.

5271/5272 Recreation & Sports  Semester 9-12
Prerequisite: PE9
This activity based course will provide students instruction on traditional sports as well as a variety of recreation activities.

5301/5302 Total Fitness  Semester 9-12
Prerequisite: PE9
This course will focus on students achieving and maintaining a level of physical fitness for health and performance while demonstrating knowledge of fitness concepts, and strategies. Students will establish personal fitness goals, using principles of aerobics, strength and core training. Students will also be introduced to group fitness environments such as pilates, yoga, and kettlebell training.

Counselor Assigned Options

8501/8502 Independent Study  Semester 11-12
Prerequisite: Pre-approval from supervising instructor.
Independent Study is available for students who want subject matter not available in the schedule or through current curriculum. Special arrangements must be made between the applying student, faculty member and counselor to set up goals and objectives for Independent Study. Course goals and objectives must be completed and turned into the main office no later than 1 week following the beginning of a semester.

Dual Enrollment  Semester 9-12
See below for course section numbers
Prerequisite: Must meet eligibility as prescribed by law.
Students may attend a public or private degree-granting postsecondary institution with written permission from the school counselor. State legislation directs districts to assist in the payment of tuition and fees for currently enrolled students taking approved classes from an approved post secondary institution after the successful completion or administration of standardized assessment as required by law. Students interested in dual enrollment need to contact the High School Counseling Office for more details. There is a separate handbook with dual enrollment guidelines.

8611/8612 1st Hour
8621/8622 2nd Hour
8631/8632 3rd Hour
8641/8642 4th Hour
8651/8652 5th Hour
8661/8662 6th Hour

8801/8802 LINKS  Semester 11-12
The LINKS course provides students an opportunity to be a role model, tutor, and friend while supporting students with disabilities in both academic and social settings under the supervision of the student’s case manager. LINKS earn .5 elective credit and make a commitment for an entire semester. LINKS participate in the program five days a week. They attend one class period with their student. LINKS keep a daily log and assess their student’s personal goals. They may help a student with academics, organization or filling out a daily planner for example. Good attendance is a must for this class.

8401/8402 Work-Based Learning  Semester--Age Requirement
Work-Based Learning Programs are structured educational experiences that integrate classroom learning (school-based) with productive, structured work experiences (work-based), which are related to a student’s career goal, program of study, and employability skills.
Heartlands Institute of Technology (HIT)

820/821 Computer Programming* Year 11-12
• 1 or 2 Year Program 3 credits (2 semesters)
Computer Programming focuses on mastering Microsoft Excel and Access, HTML website building, JavaScript, CSS and Python programming while developing leadership, teamwork and communication skills. Students will work towards Microsoft Office certifications. Students will design a software application, produce code, develop and maintain a database to store information. In addition, students will be working with coding to use a Raspberry Pi, and designing projects that will utilize a 3D printer. Second year students will be required to develop individual projects for advanced study within the programming languages and technology within the program. Students will be asked to demonstrate leadership qualities by working with other students on a community based project.

814/815 Construction Technology* Year 11-12
• 1 or 2 Year Program 3 credits (2 semesters)
Students in Construction Technology will learn how to build our future! They’ll perform math operations such as estimating and distributing materials and supplies to complete worksite/jobsite tasks. All while applying principles of physics as they relate to worksite/jobsite situations to work with materials and load applications. Students will also learn basic safety, problem solving, teamwork skills, building materials, components, methods, and sequences in residential construction. Second year students come back to learn a higher level of skills in construction related to trades along with an overview of career opportunities available. This program partners with the Michigan Regional Council of Carpenters Union, which allows students who successfully complete the program with a seamless transition into a construction career while being paid to further their education. Students may earn Geometry credit in this class through successful completion of curriculum in addition to the state mandated math curriculum.

844/845 Criminal Justice* Year 11-12
• 1 Year Program 3 credits (2 semesters)
Criminal Justice provides a broad overview of criminal law and procedures necessary for continued education in the fields of law enforcement, probation, corrections, investigation, private security and other criminal justice related careers. Students will experience areas of instruction to include law, ethics, investigations, physical conditioning, first aid, defensive tactics, and patrol and police skills. Activities in this class include: Red Man defensive tactics, Dive Team, Traffic Stops, Taser Demonstration, Jail Tour, Simunition Training, Court and Central Dispatch Training Simulator.

830/831 Culinary Arts* Year 11-12
• 1 or 2 Year Program 3 credits (2 semesters)
Culinary Arts is designed to acclimate students to the fast-paced restaurant industry by following the National Restaurant Association Pro-Start curriculum. Students in Culinary Arts will perform a variety of tasks to maintain operations and promote guest services. In addition, students learn about: food and beverage production, nutritional values of foods, proper cooking methods, and sanitation. Running the Class Act Restaurant offers students the opportunity to research costs, utilize a modern Point of Sale (POS) system, following and understanding the importance of health, safety, and the importance of organizational performance and regulatory compliance. Students in Culinary Arts have the opportunity to take and obtain the National Serv-Safe Certification helping them gain employment. Second year students will be mentors in the program, expand upon their first year knowledge and compete in Pro-Start competitions. Second year students must have prior instructor approval.

826/827 Diesel Technology* Year 11-12
• 1 Year Program 3 credits (2 semesters)
Diesel Technology is designed for students to work with large industrial equipment such as agricultural, material handling, and highway equipment. Students work in the classroom learning about the various diesel engines and components. The lab provides students with the opportunity to get hands-on experience with diesel engines and other large scale equipment. Students will perform the following duties: servicing, maintaining, repairing, inspecting, cleaning, dismantling engines and electrical systems, inspection, repair and maintenance of hydraulics systems, diagnosing of internal combustion engines, electrical components, transmissions, and heavy-duty brakes and suspension. Proper setup and operation of vehicles, preventative maintenance, equipment, and machines are a part of the job. Mechanics must often work independently, solve problems, and perform work that is physically demanding.

832/833 Educational Careers* Year 11-12
• 1 Year Program 3 credits (2 semesters)
In the Educational Careers program, students will study the history, development, organization, and practices of preschool, elementary, and secondary education. They will learn presentation, public speaking, writing, communication, and reasoning skills. Students will be placed in preschool, elementary, or middle school classrooms in their local district to work alongside a current teacher. The program will expose students to general education, special education, and career technical education. All Educational Careers students must provide their own transportation to placement sites. Successful completion of this program will result in a “pre-teaching” portfolio and articulated credit to a variety of post-secondary institutions.

834/835 Health Occupations* Year 11-12
• 1 Year Program 3 credits (2 semesters)
Health Occupations is designed to prepare students to obtain their Certified Nursing Assistant Certificate setting the foundation to advance in the health field. Curriculum covers: anatomy and physiology, medical terminology, medical math, CPR, First Aid, AED and professional clinical experience. The primary clinical experiences are with Sparrow Ionia Hospital, SKLD long term care & Life EMS. The curriculum is designed to meet the demands of the students and the changes in health care. Significant segments of class time are devoted to learning skills to be used in a nursing career; included are all aspects of personal care, taking vital signs, and learning transfer techniques. Students will learn the importance of proper communication, teamwork, safety, and exploration in information technology. At the completion of this course students will have the opportunity to sit for their Certified Nursing Assistant (CNA) exam.

* Satisfies MMC Visual, Performing and Applied Arts credit required to graduate

All HIT programs may be taken in place of the 2nd year of a world language
Heartlands Institute of Technology (HIT) cont.

822/823 Healthcare Foundations* Year 11-12  
• 1 Year Program 3 credits (2 semesters)  
The Healthcare Foundations course focuses on introducing students to career opportunities available in the healthcare field including medical, dental and vision. Students learn skills that they will be able to use in a variety of healthcare settings. Topics include: safety, communication, information technology, teamwork, legal/ethics, anatomy and physiology, health maintenance, employability, body systems including conditions/diseases, technical skills and medical terminology. The course includes specific hands-on exploration in the areas of dental & health careers including running the Heartlands’ Dental Clinic (alongside community dentists), Sparrow Ionia Hospital clinic rotations & Life EMS paramedic rotations. Students have the opportunity to earn their First Aid, CPR & AED certifications second semester.

838/839 Machine Tool*/** Year 11-12  
• 1 or 2 Year Program 3 credits (2 semesters)  
Machine Tool is designed to expose students to state of the art industrial equipment. Students learn functions and capabilities of engine lathes, drill presses, grinding machines, cut-off saws, and radial drills. Computer controlled milling and manufacturing processes are taught using the latest technology in the machine industry. Second year students prove mastery of the machines and techniques used to make an advanced project. Students may earn Algebra II credit in this class through successful completion of curriculum in addition to the state mandated math curriculum.

842/843 Plant/Animal Science * Year 11-12  
• 1 or 2 Year Program 3 credits (2 semesters)  
The Plant/Animal Science program will prepare students for careers or further study in the areas of horticulture and animal science. Areas of study include: sustainable agriculture, horticulture, and greenhouse systems, environmental science, as well as, animal anatomy/physiology, nutrition, reproduction, and health. Students will raise poinsettias, Easter lilies, annual bedding plants, chickens, pheasants, cattle, pigs, salmon and tilapia. Upon completion of the program, students will have gained a basic awareness of agriculture and animal science and will have learned how the diversity of product in agriculture leads to future opportunities in the field. All students participate in the Ionia County FFA Chapter and will have opportunities to compete at local, state and national levels. Elements of agri-business are covered throughout the curriculum.

* Satisfies MMC Visual, Performing and Applied Arts credit required to graduate

** Satisfies the Algebra II credit

All programs may be taken in place of the 2nd year of a world language
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