Germantown High School

Career Development & Course Planning Guide

2019-2020
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GENERAL INFORMATION

HOW TO USE THIS BOOKLET
The Course Planning and Career Development Guide is designed to assist each student, and his or her parent(s)/guardian(s), in getting the most out of his/her education for a happy and productive life after high school. Choosing courses should involve much more than trying to fill the school day with graduation requirements and random elective courses. Germantown High School wants its students to use the scheduling process to plan a 4-year sequence that builds a sturdy foundation that can be used as a springboard into a career field—either through technical schooling, a four-year college program, apprenticeships, or other special career programs after high school graduation.

We recommend using the following eight steps:

1. Take the Career Clusters Survey on pages 28-33 to find out which Career Cluster(s) best fit your interests and personal qualities. Then, look over the Career Clusters on pages 34-51 and check out the occupations listed under “From High School,” “Careers with Certification/Associates Degree,” and “Bachelor’s, Pre-Professional, or Higher Degree.” Select one or more Career Clusters that you feel best fit your interests, talents, personality, etc. Highlight the cluster(s) as well as any particular careers that interest you for future reference.

2. Review pages 23-24, entitled “Postsecondary Options.” Based on the careers you highlighted in this booklet, careers that interest you in general at this point in time, or just general personal goals, select a postsecondary pathway. Carefully read the description, paying particular attention to any requirements that must be fulfilled while in high school.

3. Use the Graduation Requirement Checklist on page 4 and the Academic Preparation Chart on page 17 to determine the progress you are making towards your high school graduation.

4. Look over the requirements for entrance into colleges and technical schools on the Academic Preparation Chart on page 17. Compare what is required with the classes you have taken and passed thus far at Germantown High School. Also look at the College Preparation Checklist on pages 25-27 to make sure you are following the right steps to prepare for college, if that is the plan you have selected.

5. Use the 4-Year High School Plan on page 18 to outline your remaining courses at Germantown High School. This is your personal roadmap to get the most out of your high school years. Make sure you include the courses you need for graduation and whichever postsecondary option you chose (e.g., some colleges and universities require a certain number credits in foreign language, fine arts, etc.). Pay close attention to certain course prerequisites. Select electives that will be meaningful for your choice of career. Unfortunately, many of the opportunities available at Germantown High School are wasted when students lack a plan for their high school years.

6. Look over the information contained in this booklet pertaining to Advanced Placement courses, Early College Credit and Start College Now programs, Co-Op and Youth Apprenticeship, early graduation procedures, and schedule change policies. This could be important to you.

7. Along with your parent(s)/guardian(s), mark the courses you plan to take for the 2019-2020 school year on the GHS Course Selection sheet (page 19, 20, 21 and 22). Carefully consider your teachers’ recommendations when selecting courses.

8. For sophomores, juniors, and seniors, complete your course registration online by December 19, 2018 and turn in your completed course registration form to the School Counseling Office. For incoming freshmen, return your course selection form to Germantown High School by February 13, 2019. Students who register for classes after the due date will be marked late. Students with a “Late” notation will be the first individuals removed from courses that have exceeded enrollment capacities.
GENERAL INFORMATION

ATTENTION PARENTS
The information in this Career Development and Course Planning Guide is intended to help students and their parents choose courses which best prepare students for whatever further education or career they choose. We recommend that you read all of the preliminary information to ensure that no educational opportunity is overlooked. In addition to this document, other information and explanations of programs can be found in the Parent/Student Handbook published annually by the District.

Students are encouraged to ask their school counselor for help with course registration. Special assistance can also be given to students by those staff members who are currently teaching the subject or course in question.

Parents are especially encouraged to contact Mrs. Mueller, Ms. Hernandez, Mr. Benz, or Mrs. Bast for clarification, additional information, or any assistance they may need in the course selection process.

Specific information regarding scheduling is distributed to students by the school counselors in the following manner:

<table>
<thead>
<tr>
<th>Counselors</th>
<th>Assignment</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elizabeth Mueller</td>
<td>A – F</td>
<td>502-7251</td>
</tr>
<tr>
<td>Caryn Hernandez</td>
<td>G – L</td>
<td>502-7253</td>
</tr>
<tr>
<td>Perry Benz</td>
<td>M– Sch</td>
<td>502-7254</td>
</tr>
<tr>
<td>Susan Bast</td>
<td>Sci – Z</td>
<td>502-7252</td>
</tr>
</tbody>
</table>

GRADUATION REQUIREMENTS
Germantown High School requires students to earn twenty-three (23) credits to graduate. Please refer to the column to the right for a breakdown of required credits in each academic area. One-half credit is awarded for a semester course; one credit is awarded for a full-year course.

SUBJECT AREA GRADUATION REQUIREMENTS

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4.0</td>
</tr>
<tr>
<td>Math</td>
<td>3.0</td>
</tr>
<tr>
<td>Science</td>
<td>3.0</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3.0</td>
</tr>
<tr>
<td>Health</td>
<td>0.5</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1.5</td>
</tr>
<tr>
<td>Personal Financial Literacy</td>
<td>0.5</td>
</tr>
<tr>
<td>Electives</td>
<td>7.5</td>
</tr>
<tr>
<td>Civics Exam</td>
<td>(no credit)</td>
</tr>
<tr>
<td>Total</td>
<td>23.0</td>
</tr>
</tbody>
</table>

GRADUATION CHECKLIST

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>English</td>
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<tr>
<td>Math</td>
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<tr>
<td>Science</td>
<td>1.0</td>
</tr>
<tr>
<td>Social Studies</td>
<td>1.0</td>
</tr>
<tr>
<td>Phy Ed/Health</td>
<td>0.5</td>
</tr>
<tr>
<td>Business</td>
<td>0.5</td>
</tr>
<tr>
<td>Electives</td>
<td>7.5</td>
</tr>
<tr>
<td>Civics Test</td>
<td></td>
</tr>
</tbody>
</table>
GENERAL INFORMATION

CIVICS EXAM
Starting with the Class of 2017, any student graduating from a Wisconsin high school must “take a civics test comprised of 100 questions that are identical to the 100 questions that may be asked of an individual during the process of applying for U.S. citizenship by the United States Citizenship and Immigration Services and correctly answer at least 60 of those questions.” (Section 3266R, 118.33(1m)(a)1 of WI Act 55). Students with IEPs must complete the test, but do not have to pass it in order to graduate, and students identified as LEP may take the test in their language of choice. It is up to the school/district what format to use and when in the year to administer the test.

GRADUATION/EARLY GRADUATION
It is strongly recommended that students be enrolled in high school for four years. However, ambitious students may accumulate the required credits for graduation in less than four years. Any student anticipating the completion of high school in less than the expected four year period will need to complete a request for early graduation.

Any student planning an early graduation in January of 2020 must:
1. Develop an academic plan that will meet all graduation credit requirements;
2. Secure administrative approval for early graduation.

It should be understood that vocational and correspondence school credits are not accepted for early graduation. If all first semester courses are not successfully completed or do not satisfy the minimum 23-credit graduation requirement, the student will be required to register as a full-time student for the second semester.

GERMANTOWN HIGH SCHOOL GRADING SCALE

<table>
<thead>
<tr>
<th>Grade</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.000</td>
</tr>
<tr>
<td>A-</td>
<td>3.670</td>
</tr>
<tr>
<td>B+</td>
<td>3.333</td>
</tr>
<tr>
<td>B</td>
<td>3.000</td>
</tr>
<tr>
<td>B-</td>
<td>2.670</td>
</tr>
<tr>
<td>C+</td>
<td>2.333</td>
</tr>
<tr>
<td>C</td>
<td>2.000</td>
</tr>
<tr>
<td>C-</td>
<td>1.670</td>
</tr>
<tr>
<td>D+</td>
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<tr>
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</tr>
<tr>
<td>D-</td>
<td>0.670</td>
</tr>
<tr>
<td>F</td>
<td>0.000</td>
</tr>
</tbody>
</table>

HONOR ROLL REQUIREMENTS
Students are eligible for the school Honor Roll/Honorable Mention if they meet the following requirements:
1. Are enrolled in at least six (6) subjects.
2. Achieve a grade point average of 3.5 or above for Honor Roll
3. Achieve a grade point average of 3.0 - 3.49 for Honorable Mention
4. Do not receive a grade of “F” or an “Incomplete”

TRANSFER CREDITS
Transfer credits for incoming Germantown High School students will be handled according to the following policies:

BEFORE HIGH SCHOOL
Under 2013’s Act 138, a school board may count a credit that a student takes in 7th or 8th grade toward high school graduation credit requirements if three (3) conditions are met:
1. The pupil’s performance on a state examination (or similar examination) approved by the school board must demonstrate that the pupil is academically prepared for
coursework that is offered in the high school grades;

2) The credit must be earned in a course that is taught by a teacher who is licensed to teach the subject in the high school grades;

3) The credit must be earned in a course that is taught using a curriculum and assessments that are equivalent to the curriculum and assessments used to teach the subject in the high school grades.

Requests for this type of credit should be made with the Office of Teaching and Learning. In all cases, when credit(s) is/are awarded, the grade will be recorded on the transcript, but the grade will not be included in the student’s overall GPA.

AN AMERICAN HIGH SCHOOL
Germantown High School will transfer classes and grades with appropriate credit for all classes a student has taken at an accredited United States high school. Course titles will be noted on the Germantown High School transcript as they appear on the receiving school’s transcript. We will convert transfer credits to the Germantown credit system for ease of calculating graduation requirements. Religion classes may be consolidated and granted a maximum of ½ elective credit. All physical education classes will be factored into the overall GPA and rank at Germantown High School. Advanced Placement (AP) designation will be noted on the student transcript. Any student who transfers at the beginning of their senior year will not be counted in Germantown High School’s class rank until the end of the first semester of their senior year. Their class rank and GPA from the previous school will be submitted to colleges and universities.

PART-TIME OPEN ENROLLMENT
Credits earned in courses taken at another public, private or parochial high school will be accepted and treated in a manner similar to credits earned at Germantown High School. Credit to be awarded toward graduation for classes taken by district students at other public high schools under the part-time public school open enrollment program shall be determined by the High School Principal or his/her designee prior to the student taking the course. Courses taken by district students at other high schools will not count as part of the student’s grade point average or be used in class standing.

VIRTUAL SCHOOLS
Students who are enrolled full-time at Germantown High School may apply up to two credits earned through virtual schools towards the required 23 credits required for a Germantown High School diploma. Credit to be awarded toward graduation for classes taken through a virtual school shall be determined by the High School Principal or his/her designee prior to the student taking the course. Courses taken by district students at virtual schools will not count as part of the student’s grade point average or be used in class standing. This does not apply to students who are enrolled in virtual schools through Open Enrollment.

EARLY COLLEGE CREDIT PROGRAM (EECP) AND START COLLEGE NOW
A student in grades 9 through 12 will be permitted to enroll in a UW System institution, technical college, or a private, non-profit institution of higher education, to take one or more nonsectarian courses, for which the student may earn high school credit, post-secondary credit, or both. The High School Principal or his/her designee shall evaluate courses taken by students through these programs in relation to the district’s curriculum, graduation requirements and comparability to Germantown High School course offerings. High school credit shall be awarded...
accordingly. Credit will be awarded for these courses consistent with state law and regulations. Grades earned in these classes will not count as part of the student’s grade point average or be used in class standing.

**STUDY ABROAD CREDIT INFORMATION**

Germantown students who take exchange courses outside the confines of Germantown High School will receive acknowledgement and credit shown on their transcript. A maximum of 3.5 credits will be awarded for each semester. In all cases, credit received will be shown without a grade, using pass/fail, and will not be included in the student’s cumulative grade point average. Thus, the student will return from a study abroad program with the same GPA as when they left GHS. The credits, however, will be counted toward meeting the 23-credit graduation requirement.

**ENRICHMENT COURSES**

Requests for credits of any kind for enrichment programs should be submitted to the School Counseling Department in writing at least four weeks in advance of attending the program. This would apply to summer enrichment programs such as Midwest Talent Search, Wisconsin Center for Academically Talented Youth, and pre-college programs. Grade and credit will be recorded on the transcript, but the grade will not be included in the overall GPA.

**HOME SCHOoled STUDENTS**

Home-based Private Education Program means a program of educational instruction provided to a child by the child’s parent or guardian, by a person designated by the parent or guardian, or by a person designated by the parent or guardian as defined under s115.001(3)(g). An instructional program provided to more than one family unit does not constitute a home-based private educational program. Students who have been in attendance in a Home-based Private Education Program for a period of at least ninety (90) calendar days or more and wish to earn a Germantown High School diploma shall furnish the principal, director of Teaching and Learning, or designee with the following documentation of the Home-based Private Educational Program:

1. A copy of the Home-based Private Educational form: Wisconsin EPI Form PI-1206;
2. A copy of the school calendar that verifies that each school term of Home-based Education instruction consisted of a minimum of 875 hours (W.S. s.118.165(1));
3. Copies of the sequential curriculum that was taught in the six (6) mandated subject areas (s.118.165(1)(d));
4. Records of student performance for each course taken.

The District reserves the right to test competency in an academic area to award credit and make appropriate placement. Home-based coursework will be recorded as credit only.

**PROCEDURE FOR EARNING REMEDIAL HIGH SCHOOL CREDIT**

This procedure addresses high school credits earned through MATC, correspondence courses, and online virtual schools:

1. Of the 23 credits required for a Germantown High School diploma, 21 credits must be earned through Germantown High School courses. Therefore, a maximum of two (2) credits may be applied toward the required 23 credits from other credit-granting institutions.
2. Correspondence courses are for make-up credit only. These courses are intended for students who have failed a required course at Germantown High School. Similar alternative educational requests will be considered on a case-by-case basis.
GENERAL INFORMATION

3. It is recommended that students enroll in a maximum of one correspondence course at a time for the purpose of credit retrieval.

4. Students enrolled in a correspondence course are required to take the final exam. Arrangements should be made to have a Germantown High School official supervise the exam.

5. It is required that all correspondence courses be completed before April 1st of the current school year for seniors planning to apply this credit toward their June graduation.

6. It is the student’s responsibility to provide Germantown High School with a transcript of completed course work. This is to arrive no later than May 15th of the current school year for seniors who want to graduate with their class in June.

7. Prior approval from a school counselor or the principal must be given before a student enrolls in a non-Germantown High School course for credit.

RECORDING OF GRADES AND CREDITS ON THE GERMANTOWN TRANSCRIPT

1. Make up credit courses: Correspondence courses taken outside of Germantown High School for purposes of making up a failure in a required Germantown course will appear on the transcript. A pass/fail grade and amount of credit earned will also be indicated. Please note that although this course makes up the failed course requirement, it does not remove the original failing grade as listed on the transcript. Odysseyware and summer school credit retrieval courses will also be graded on a pass/fail basis.

2. Enrichment Courses (Early College Credit Program, Start College Now, Pre-College, WCATY and other enrichment courses): Credit will be awarded for these courses and will be applied toward the 23-credit graduation requirement. The grade will appear on the transcript but will be GPA exempt.

PUPIL-PERSONNEL SERVICES

Germantown High School maintains pupil-personnel offices available to students and parents throughout the school day. Teachers, parents, and students may use these personnel services in order to better understand student concerns and to aid in their solution. When a student wishes to talk to a school counselor or social worker, the student should make an appointment a day or two ahead of time during their study hall or lunch period so both parties will have uninterrupted time for discussion. In emergency situations, students should report directly to the School Counseling Office.

Eighth grade students who enter high school generally have many questions. A special effort will be made to have these students and their parents informed about the high school program. The selection of the proper program for each student is very important. Whenever you have any questions, please contact the School Counseling Office.

School Social Worker: This service is available to students of Germantown High School for individual counseling and information about local agencies and programs offering helping services. School staff, parents, or students may request an appointment to discuss possible services. Situations which may be referred to the school social worker are varied, but commonly include problems with family, friends, alcohol and drugs as well as emotional difficulty. The number to contact is (262) 502-7121.

School Psychologists: These services are available to high school students upon referral from teachers or school counselors, or by parent request. The number to contact is (262) 253-3400.
NOTICE OF NONDISCRIMINATION POLICY

The Germantown Board of Education complies with all federal laws and regulations prohibiting discrimination and with all requirements and regulations of the U.S. Department of Education. It is the policy of the Germantown Board of Education that no person on the basis of sex, race, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation or physical, mental, emotional or learning disability or handicap shall be discriminated against, excluded from participation in, denied the benefits of, or otherwise be subjected to, discrimination in its education programs or activities for which it is responsible or for which it receives financial assistance from the U.S. Department of Education.

Federal law and the Wisconsin Fair Employment Law also prohibit discrimination in employment on the basis of age, race, color, national origin, sex, or handicap.

Any questions concerning Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex, should be directed to:

Mrs. Brenda O’Brien
Director of Teaching and Learning
Germantown Schools, Germantown, WI 53022
(262) 253-3906

Inquiries related to Title VI of the Civil Rights Act of 1964, which prohibits discrimination on the basis of handicap, should be directed to:

Mr. Todd Lamb
Director of Pupil Services
Germantown Schools, Germantown, WI 53022
(262) 253-3920

Inquiries related to Title VI of The Civil Rights Act of 1964, which prohibits discrimination on the basis of race, color, or national origin, should be directed to:

Mr. Jeff Holmes
Superintendent of Schools
Germantown Schools, Germantown, WI 53022
(262) 253-3905

Students involved in the discrimination of others through harassment may be suspended from school and may be recommended for expulsion.
COURSE SELECTION

THE SCHEDULING PROCESS
The School Counseling Office begins the scheduling process for the next school year in December. This Career Development and Course Planning Guide is printed based on Board of Education approved classes. The classes described within this booklet are those approved for offering to our students, but this does not guarantee that all electives will be available. The Board of Education decides in March of each year which electives will be offered based on student enrollment. Please be aware that any elective class with low enrollment numbers may be cancelled.

School administrators determine the master schedule for all courses for the 2019-2020 school year and teacher assignments based on student selection of courses. For these reasons, careful selection is very important. Schedule changes are discouraged. The process for changing a schedule is described under SCHEDULE CHANGES on page 12.

The Germantown School District Board of Education reserves the right to change any administrative rule or policy at any time it is deemed necessary in order to maintain the daily, safe, and orderly operation of the school for students and staff.

There are a number of special program considerations which students and parents should read carefully. If more information is needed, please contact school counseling personnel or an administrator.

COURSE SELECTION
Students will be asked to select courses for the coming school year. Courses offered will depend on enrollment requests. A minimum number of students must request a course before it will be offered. The guidelines for a minimum number of students will be developed by the Board of Education. When a course is dropped because of lack of interest, students may select another course in its place.

PREREQUISITES
Grade levels at which courses may be taken are indicated before each course description. Prerequisites to take a course, if any, are also listed at the end of each course description. The prerequisites are intended to ensure that the student has the background necessary to be successful in the more advanced course.

MINIMUM CLASSLOAD
A class load of six (6) credits per year is required per board policy. This will provide enough credits for graduation in a student's four years. However, additional courses taken above the minimum load will provide a wider educational background and the potential for a greater variety of post-high school options.

Class schedule requirements for Senior students are as follows:

1. A six (6) credit load is required of every senior.
2. A senior student may carry a reduced load of five (5) credits if the student is:
   a. participating in a GHS sponsored Co-Op program; or
   b. participating in the GHS Youth Apprenticeship program
   c. participating in the Early College Credit Program or Start College Now

Juniors participating in Youth Apprenticeship, Early College Credit, or Start College Now programs will have their class load adjusted to meet the requirements of the program.
MAXIMUM CLASS LOAD/DROPS
Any student carrying more than six (6) credits per year is considered to be taking a full load. Students may drop their 7th class for a study hall, without penalty, if they provide parental permission and complete the process before the end of the fourth week of the semester. Any student dropping an elective class after the fourth week will receive a grade of “F” for the semester for the dropped course. No student may have more than one study hall per semester.

PHYSICAL EDUCATION WAIVER
Students who participate in an approved interscholastic athletic sport (as listed in the co-curricular handbook) during 11th grade may be excused from their 0.5 credit junior year high school physical education requirement, provided that they take an additional 0.5 credit of English, social studies, science, mathematics, health education (Diversified Health Occupations 1 or Diversified Health Occupations 2), or AP Seminar.

In order to qualify for the waiver, students must complete and submit an official PE Credit Waiver Request form by December 19, 2018. The waiver will be revoked should either of the following occur:

1. Failure to complete at least one (1) approved sport during 11th grade due to non-participation (i.e., not going out or quitting), dismissal, ineligibility, or suspension (i.e., activities code violation).

2. Failure to complete the additional 0.5 credit English, social studies, science, mathematics, health education, or AP Seminar course.

In either case, the student will need to complete the 11th grade physical education requirement during senior year. Senior Physical Education does not satisfy physical education requirements for graduation.

INCOMPLETES
In certain unique circumstances, a student may receive a grade of “Incomplete” for the quarter or semester. When this occurs, the student’s teacher will fill out an Incomplete Grade Form, which specifically identifies the final deadline for submission of all work (i.e., homework, projects, papers, quizzes, tests, etc.). Generally speaking, the deadline may be extended up to two (2) weeks to finish all work; however, additional time may be permitted for circumstances such as hospitalization, at the discretion of the administration. The teacher will attach a list of all work that is due by the stated deadline. Any work not completed by the deadline will be given a grade of zero (0).

RETTAKES
Students must retake required classes for which they receive a failing grade. In addition, students may choose to retake a failed elective course.

Any request to retake a course for which a student has already received a passing grade must be approved by the school counselor. If approved:

1. No additional credit will be granted;

2. The new grade will not be calculated into the student’s semester or cumulative GPA;

3. Both grades will appear on the student’s transcript.

FEES
The fees listed for individual courses are from the 2018-2019 school year and may be adjusted pending board approval for the 2019-2020 school year. The new fee schedule was not available at the time this guide was printed.

COURSE CONFLICTS
Every effort will be made to honor each student’s request for courses, but conflicts do arise. If conflicts do arise, school counselors will contact the student during the spring or summer and help him/her resolve the problem.
COURSE SELECTION

SCHEDULE CHANGES
Teacher assignments, staffing and school budgets are based on student course selections made for the upcoming school year. Students and parents are urged to proceed through the course selection process with careful consideration of the high school curriculum and their student’s post-high school plans. Every effort will be made to accommodate all student course requests. Some important things to remember regarding schedule changes:

1. Course selections are final on February 13, 2019. Students will be required to meet stringent guidelines in order to change their course selection after February 13th. A change in course selection will only be considered if:
   a. The student has already completed the course.
   b. The student does not have the prerequisites for the course.
   c. The student must alter his/her schedule to meet graduation requirements.
   d. The student must add a course to meet post-high school employment or college entrance requirements.
   e. The student has physical limitations.

2. Students are expected to abide by their course selections and the resulting class schedule. Our schedule is constructed and faculty hired based on the number of original student course requests. Once this is done, changes are difficult to make. The school will try to help if there is a good reason for a change request, but we will not allow changes for the following reasons:
   a. The student desires to change his/her lunch period.
   b. The student desires to enroll in a course with friends.
   c. The student desires to change instructors.
   d. The student would drop below the required minimum credit requirement for the semester.

3. Changes must be made before classes begin. We provide opportunities for this in the spring, and it is the student’s/parent’s responsibility to see that it is taken care of prior to the end of the school year. No schedule changes which include dropping one class while adding another will be made after the first day of school for first semester classes.

4. Except for computer or school errors, no changes in courses are to be made in a student’s schedule without the written permission of the parent or guardian.

Any student needing to make a change in the courses they selected must schedule an appointment with their school counselor prior to February 13th, 2019. The request will be accommodated if, and only if, the desired class section has seats available, written or oral parental permission supporting the change is provided and the schedule change is completed prior to February 13th, 2019. The deadline for 2nd semester schedule changes is December 13th, 2019.

SPECIAL PROGRAM OPTIONS

HONORS PROGRAM
Germantown High School Honors and Advanced Placement Programs are designed to meet the needs of students who are interested in a more challenging and in-depth academic program.

Honors courses offer students a more rigorous and challenging curriculum with an opportunity to develop problem solving skills, as well as the higher order thinking skills of analysis, judgment, and synthesis. Indicators such as previous grades, scores on the InView cognitive abilities assessment, MAP test scores, and teacher recommendations are used to help students decide whether to select the “honors” option. Students electing to participate in the honors curriculum are expected to maintain a B or better average for the semester in each honors course completed. It is recommended that students taking multiple Honors courses have a study hall.
COURSE SELECTION

Freshman Year Honors Courses
- Honors English 9
- Honors Geometry
- Honors Biology
- Honors American History

Sophomore Year Honors Courses
- Honors English 10
- Honors Advanced Algebra
- Honors Chemistry
- Honors World History

Junior Year Honors Courses
- Honors Pre-Calculus

ADVANCED PLACEMENT PROGRAM
The Advanced Placement (AP) Program also offers students a rigorous curriculum with the addition of an opportunity to pursue college-level studies while still in secondary school and to receive advanced placement and/or credit upon entering college. In order to receive college credit, the student must take a test designated by the College Board in May. The student must score at a required level on the test in May in order to be eligible for college credit. Students who are eligible for free or reduced-price lunches under the federal school lunch program may request a fee waiver from the AP Coordinator.

Advanced Placement classes include:
- AP Biology
- AP Calculus AB
- AP Calculus BC
- AP Chemistry
- AP Computer Science Principles
- AP Economics (Macro & Micro)
- AP English Language & Composition
- AP English Literature & Composition
- AP European History
- AP Human Geography
- AP Music Theory
- AP Physics 1: Algebra-Based
- AP Psychology
- AP Research
- AP Seminar
- AP Statistics
- AP Studio Art (2-D, 3-D, Drawing)
- AP United States History

ACCELERATION/ENRICHMENT
All programs of Acceleration and Enrichment must be formally approved by the District Administrator. Requests for such programs must be initiated through Brenda O’Brien, Director of Teaching and Learning, at 262-253-3906.

All Independent Study courses must be approved by the District Administrator or designee prior to the start of the course in order to receive credit. The content of all Independent Study courses and criteria for awarding credit must be carefully specified in writing prior to approval. Approval for Independent Study will be considered only upon recommendation of the instructor and the principal.

Pre-approval by the District Administrator is required for all such program modifications which will result in credit awards not described in the following published Course Selection Guide.

INTERNATIONAL EXCHANGE OPPORTUNITIES
There are a number of international exchange programs available to Germantown High School students. For a comprehensive list of nationally certified programs, please visit http://www.csiet.org/. For more information, contact Mr. Benz in the School Counseling Office.

WORK-STUDY PLACEMENTS
Several opportunities for students to learn at a work-site are offered through Germantown High School. The intent and purpose of placements is to provide students with work experience which is related to their high school educational experience. Students are supervised on the job by employers who are in communication with the appropriate faculty member. The following requirements indicate the educational expectations of the program:

1. All placements for Germantown High School Co-Op Programs are for Seniors only. Youth Apprenticeship Programs are open to Juniors and Seniors.
2. Students must obtain permission to register for Co-Op and Youth Apprenticeship programs from the appropriate faculty member.

3. The Co-Op and Youth Apprenticeship coordinators will assist in finding an appropriate place of employment, but there is no guarantee that placement will occur. We have many local area businesses and industries that offer positions for our students, and we are able to place almost every student who is eligible. The ultimate selection is made by the employer upon the results of an interview process.

4. Work hours may include up to the last two hours of the school day if the student’s schedule, grades, and credits allow.

5. Students must follow all attendance rules of the school and the place of work.

6. Students may not end their employment without proper consultation with their school and work-site supervisors and the Co-Op or Youth Apprenticeship coordinator.

7. This is a year-long course and as such is a commitment by the student for employment for the school year.

**CO-OPS**
Germantown High School Co-ops are open to seniors only. Many Co-Op programs require completion of certain prerequisite courses, so careful 4-year planning is required.

The following Co-Op programs are offered at GHS:

- 21st Century Work Skills
- Family & Consumer Science

**STATE YOUTH APPRENTICESHIP PROGRAM**
Do you want to be PAID to get a jump-start on your future? Youth Apprenticeship is a 1- or 2-year program that combines mentored, on-the-job learning with academic and technical classroom instruction. It opens doors for students by giving them the chance to "try out" a career area while experiencing an adult working environment. Students gain paid, hands-on learning with a business mentor, while completing classroom instruction related to the career area.

Students are selected for the program based on an interview with potential business partners and an application, which includes attendance and academic records. Positions are limited since everyone must have a business partner. Students are responsible for their own transportation. Interviews take place in April and May.

**Youth Apprenticeships are available in the following career areas:**
- Accounting
- Agriculture
- Agriculture Mechanics
- Auto Technician
- Banking
- Carpentry
- Certified Nursing Assistant
- Dental Assistant
- Diesel Technician
- Dietary Aide
- Engineering
- Hospitality
- HVAC
- Industrial Maintenance
- Information Technology
- Insurance
- Machining
- Masonry
- Plumbing
- Printing
- Sales and Marketing
- Veterinary Technician
- Welding

What Makes Someone a Good Candidate for Youth Apprenticeship?

**Attitude**
- Have a career interest related to a Youth Apprenticeship program area
- Desire and maturity to work in an adult setting, with adult responsibilities
- Willing to learn, accept constructive feedback, and be coached by a mentor on the job
- No history of behavioral issues or suspensions from school
COURSE SELECTION

Academics
✓ On track with credits required for graduation
✓ Able to maintain passing grades for all courses while enrolled in the program
✓ Can be released for two (2) or more class periods during the school day pending work hours

Reliability
✓ Demonstrated history of being punctual and reliable with attendance
✓ Have reliable transportation to and from the workplace
✓ Flexibility to work and attend any necessary training during the summer and school year

The Youth Apprenticeship Info Night meeting on Thursday March 7th, at 6:00 PM at West Bend High School in the Silver Lining Auditorium will provide additional information about these opportunities!

Sophomore and juniors on track for graduation may apply. Interested students should see Mr. Benz in the School Counseling Office.

EARLY COLLEGE CREDIT PROGRAM AND START COLLEGE NOW
The Youth Options statute (118.55) was renamed the Early College Credit Program. The statute allows Wisconsin public and private high school students to take one or more courses at an institution of higher education for high school and/or college credit. Under this section, “institution of higher education” means an institution within the University of Wisconsin System, a tribally controlled college, or a private, nonprofit institution of higher education located in the state. Students must notify district of intent to enroll in Start College Now courses by March 1st for fall semester courses and October 1st for spring semester courses. More information may be found on the Wisconsin Department of Public Instruction’s website.

START COLLEGE NOW
Start College Now will allow high school students the opportunity to take college courses at Wisconsin Technical Colleges. The process is very similar to Youth Options. 38.12 (14) will lay out all the aspects of the program. In addition, feel free to review and download the application. Students must notify district of intent to enroll in Start College Now courses by March 1st for fall semester courses and October 1st for spring semester courses. More information may be found on the Wisconsin Department of Public Instruction’s website.

SUMMER SCHOOL
The Germantown School District offers two types of summer school programs for high school students:

1. Some summer school courses are for remediation purposes. Students are strongly encouraged to take advantage of summer school in order to keep pace with graduation requirements. Failed credits must be completed in most cases before advancement in the particular curricular area can occur. Required courses not completed during summer sessions will be added to students’ schedules for the following year, which may result in the loss of elective courses and/or study halls.

2. Summer school may also be offered for credit. Students wanting to earn ½ credit of Freshmen Physical Education (PE9) are encouraged to enroll.
COURSE SELECTION

NATIONAL COLLEGIATE ATHLETIC ASSOCIATION (NCAA)

Many college athletic programs are regulated by the NCAA, an organization founded in 1906 which created rules on eligibility, recruiting and financial aid. The NCAA has three membership divisions—Division I, Division II, and Division III.

Students who are planning to enroll as college freshmen and seek participation in Division I or Division II athletics must be certified by the NCAA Initial-Eligibility Clearinghouse:

To become certified, you must:

1. Graduate from high school.
2. Earn a grade point average of at least 2.300 (on a 4.000 scale) in a core curriculum of at least sixteen (16) courses for Division I and for Division II. Keep in mind that the NCAA GPA is calculated using NCAA-approved core courses only.
3. Earn a certain sum of scores on the ACT or SAT.

See Mr. Benz if you need further information regarding the NCAA Clearinghouse, or visit their website at: https://web3.ncaa.org/ecwr3/
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### 4-YEAR HIGH SCHOOL PLAN

**Student Name:** ____________________________

**Career Cluster:**

**Career Goal:** ____________________________

**Educational Goal:** □ College □ Tech □ Work □ Other

**Graduation Requirement:** Civics Exam
Passed? □ Yes □ No  Score: _______  Date: _______

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</tr>
</tbody>
</table>
**9th Grade Course Selections**

**Required:**

Your child has been recommended for and will automatically be enrolled in the following core academic courses. If there are two options for mathematics, please circle the course your child would like to take:

<table>
<thead>
<tr>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>English [1 credit]</td>
</tr>
<tr>
<td>Mathematics [1 credit]</td>
</tr>
<tr>
<td>Science [1 credit]</td>
</tr>
<tr>
<td>Social Studies [1 credit]</td>
</tr>
<tr>
<td>Physical Education [1/2 credit]</td>
</tr>
<tr>
<td>Health [1/2 credit]</td>
</tr>
</tbody>
</table>

**Electives:**

Freshmen are also required to select at least 1 credit, but no more than 2 credits, of the elective courses listed below, unless a reading improvement course is selected.

**Art**
- Exploratory Art (A) [1/2 credit]
- Exploratory Art (B) [1/2 credit]
- Accelerated Exploratory Art + [1/2 credit]
- Ceramics [1/2 credit]
- Sculpture [1/2 credit]
- Drawing [1/2 credit]
- Metals [1/2 credit]
- Photography [1/2 credit]
- Graphic Design [1/2 credit]
- Painting [1/2 credit]
- Printmaking [1/2 credit]

**Business**
- Intro to Business/Career Exploration [1/2 credit]

**Computer Education**
- Keyboarding/Typewriting [1/2 credit]
- Computer & Desktop Applications [1/2 credit]

**English**
- Writing for Publication [1/2 credit]

**Family & Consumer Sciences**
- Foods 1 [1/2 credit]

**Music**
- Chorus [1 credit]
- Concert Winds [1 credit]
- Jazz Ensemble + [1/2 credit]
- Music Theory & Technology [1/2 credit]

**Technology Education**
- Introduction to Woodworking [1/2 credit]
- Intro to Computer Aided Design [1/2 credit]
- Architectural Drafting & Design [1/2 credit]
- Energy, Power, and Transportation [1/2 credit]
- Manufacturing [1/2 credit]
- PLTW - Intro to Engineering Design [1 credit]

**World Language**
- German 1 [1 credit]
- Spanish 1 [1 credit]
- Spanish 2 + [1 credit]

+ Teacher Recommendation Required
10th Grade Course Selections

**Required:**

**English** (select one)
- English 10
- Honors English 10 +
- AP English Seminar +

**Mathematics** (select one)
- Geometry
- Advanced Algebra
- Honors Advanced Algebra +
- Pre-Calculus +
- Honors Pre-Calculus +

**Physical Education** (select one)
- Team Games 1
- Non-Traditional Activities 1
- At The Club 1
- Conditioning and Strength Training

**Science** (select one)
- Biology
- Biology PP +
- Chemistry
- Honors Chemistry +

**Social Studies** (select one)
- World History
- Honors World History +
- AP European History +

**Electives:**

**Art**
- Exploratory Art (A)
- Exploratory Art (B)
- Ceramics
- Sculpture
- Drawing
- Metals
- Photography
- Graphic Design
- Painting
- Printmaking
- Advanced Ceramics
- Advanced Sculpture
- Advanced Drawing
- Advanced Photography
- Advanced Painting

**Business Education**
- Intro to Business/Career Expl
- Entrepreneurship
- International Bus & Mktg
- Sports & Entertainment Mktg
- Accounting
- Marketing Principles
- Personal Financial Literacy

**Computer Education**
- Keyboarding/Typewriting
- Computer & Desktop Apps
- Microsoft Word & Powerpoint
- Microsoft Access & Excel

**English**
- Writing for Publication
- Theater Concepts

**Family & Consumer Sciences**
- Foods 1
- Foods 2
- Diversified Health Occup 1
- Interior Design

**Music**
- Chorus
- Wind Symphony +
- Jazz Ensemble +
- Music Theory & Technology
- Cantanti
- Concert Choir +
- Symphonic Band
- AP Music Theory +

**Social Studies**
- AP Human Geography +
- Consumer Education
- 20th Century American Culture

**Technology Education**
- Intro to Woodworking
- Intro to CAD
- Architectural Drafting/Design
- Energy, Power, and Transp Manufacturing
- Intro to Engineering Design
- Consumer Auto
- Woodworking Design & Tech
- Automotive Technology
- Metal Fabrication
- Machine Tool Technology 1
- Machine Tool Technology 2
- Basic Welding
- Advanced Welding
- Principles of Engineering
- Robotics
- Civil Engineering/Architecture
- Digital Electronics
- AP Computer Science
- Principles

**World Language**
- German 1
- Spanish 1
- German 2
- Spanish 2
- Spanish 3

+ Teacher Recommendation Required
11th Grade Course Selections

Required:

**English** (Select One Credit)
AP English Language & Composition + (1 Credit), AP English Seminar +, Argumentation & Persuasion, Comedy/Tragedy, Introduction to Communication*, Composition for College, American Novel, World Literature, Critical Thinking & Writing

**Math** (Select One)
Geometry, Transitional Mathematics +*, Advanced Algebra, Preparation for College Mathematics, Pre-Calculus +, Honors Pre-Calculus +, AP Statistics +, AP Calculus (AB) +, AP Calculus (BC) +

**Physical Education** (select ONE)
Team Games 1, Non-Traditional Activities 1, At the Club 1, Conditioning & Strength Training, Team Games 2, Non-Traditional Activities 2, At the Club 2, Lifeguard Training

**Science** (Select One)
Chemistry, Environmental Science, Anatomy & Physiology, AP Biology +, Physics, Earth and Space Science, PLTW - Environmental Sustainability, AP Chemistry +, AP Physics +

**Social Studies** (Select One Credit)

**Business Education** (Either Junior or Senior year)
Personal Financial Literacy

---

**Electives**

**Computer Education (con’t)**
Web Site Design & Mgmt

**AP Capstone**
AP Research +

**English**
Writing for Publication
Theater Concepts

**Family & Consumer Sciences**
Foods 2
Diversified Health Occup 1
Interior Design
Diversified Health Occup 2
Child Care Skills

**Music**
Chorus
Wind Symphony +
Jazz Ensemble +
Music Theory & Technology
Cantanti
Concert Choir +
Symphonic Band
AP Music Theory +

**Physical Education**
Student Leader +

**Technology Education**
Intro to Woodworking
Introduction to CAD
Architectural Drafting/Design

---

**Technology Education (con’t)**
Manufacturing
Intro to Engineering Design
Consumer Auto
Woodworking Design/Tech.
Automotive Technology
Metal Fabrication
Machine Tool Technology 1/2
Basic Welding
Advanced Welding
Principles of Engineering
Robotics
Building Construction
Auto Systems/Diagnostics
Automated Machining
Adv. Machine Tool Tech
Civil Engineering & Architecture
Digital Electronics
AP Computer Science Principles
Youth Apprenticeship 1 +

**World Language**
German 1, 2, 3
Spanish 1, 2, 3, 4

**Work Experience**
Youth Apprenticeship 1 +

*+ Teacher recommendation required

*Some colleges may not accept this course as college prep curriculum
## 12th Grade Course Selections

### Required:

**English** (select ONE credit)
- Argumentation & Persuasion, Comedy/Tragedy, Introduction to Communication *
- Composition for College
- American Novel
- World Literature
- Critical Thinking & Writing
- Technical Writing and Communication (1 credit) *
- AP English Literature & Composition (1 credit) +
- AP English Seminar +

**Business Education** (Either Junior or Senior year)
- Personal Financial Literacy

### Electives:

<table>
<thead>
<tr>
<th>Art</th>
<th>Mathematics</th>
<th>Social Studies (con't)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exploratory Art (A) or (B)</td>
<td>Transitional Mathematics +</td>
<td>Intro to Political Science</td>
</tr>
<tr>
<td>Ceramics</td>
<td>Advanced Algebra</td>
<td>Psychology</td>
</tr>
<tr>
<td>Sculpture</td>
<td>Preparation for College Math</td>
<td>Social Problems</td>
</tr>
<tr>
<td>Drawing</td>
<td>Pre-Calculus +</td>
<td>20th Century American Culture</td>
</tr>
<tr>
<td>Metals</td>
<td>Honors Pre-Calculus +</td>
<td>AP Psychology +</td>
</tr>
<tr>
<td>Photography</td>
<td>AP Statistics +</td>
<td>AP Economics +</td>
</tr>
<tr>
<td>Graphic Design</td>
<td>AP Calculus (AB) + or (BC) +</td>
<td>Sociology</td>
</tr>
<tr>
<td>Painting</td>
<td>Calculus III +</td>
<td>Human Relations *</td>
</tr>
<tr>
<td>Printmaking</td>
<td></td>
<td>AP United States History +</td>
</tr>
<tr>
<td>Advanced Ceramics</td>
<td></td>
<td>Technology Education</td>
</tr>
<tr>
<td>Advanced Sculpture</td>
<td></td>
<td>Intro to Woodworking</td>
</tr>
<tr>
<td>Advanced Drawing</td>
<td></td>
<td>Introduction to CAD</td>
</tr>
<tr>
<td>Advanced Photography</td>
<td></td>
<td>Energy, Power, and Transp</td>
</tr>
<tr>
<td>Advanced Painting</td>
<td></td>
<td>Manufacturing</td>
</tr>
<tr>
<td>AP Studio Art I/II +</td>
<td></td>
<td>Intro to Engineering Design</td>
</tr>
<tr>
<td><strong>Business Education</strong></td>
<td></td>
<td>Consumer Auto</td>
</tr>
<tr>
<td>Entrepreneurship</td>
<td></td>
<td>Woodworking Design/Tech.</td>
</tr>
<tr>
<td>International Bus &amp; Marketing</td>
<td></td>
<td>Auto Technology</td>
</tr>
<tr>
<td>Sports &amp; Entertainment Marketing</td>
<td></td>
<td>Metal Fabrication</td>
</tr>
<tr>
<td>Accounting</td>
<td></td>
<td>Machine Tool Technology 1/2</td>
</tr>
<tr>
<td>Marketing Principles</td>
<td></td>
<td>Basic Welding</td>
</tr>
<tr>
<td>Advanced Accounting</td>
<td></td>
<td>Advanced Welding</td>
</tr>
<tr>
<td><strong>Computer Education</strong></td>
<td></td>
<td>Principles of Engineering</td>
</tr>
<tr>
<td>Keyboarding/Typewriting</td>
<td></td>
<td>Robotics</td>
</tr>
<tr>
<td>Computer &amp; Desktop Applications</td>
<td></td>
<td>Building Construction</td>
</tr>
<tr>
<td>Microsoft Word &amp; Powerpoint</td>
<td></td>
<td>Auto Systems/Diagnostics</td>
</tr>
<tr>
<td>Microsoft Access &amp; Excel</td>
<td></td>
<td>Automated Machining</td>
</tr>
<tr>
<td>Web Site Design &amp; Management</td>
<td></td>
<td>Adv Machine Tool Tech</td>
</tr>
<tr>
<td><strong>AP Capstone</strong></td>
<td></td>
<td>Civil Engineering &amp; Architecture</td>
</tr>
<tr>
<td>AP Research +</td>
<td></td>
<td>Digital Electronics</td>
</tr>
<tr>
<td><strong>English</strong></td>
<td></td>
<td>AP Computer Science Principles</td>
</tr>
<tr>
<td>Writing for Publication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Theater Concepts</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Family &amp; Consumer Sciences</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diversified Health Occup 1/2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interior Design</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Child Care Skills</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Senior Foods</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Some colleges may not accept this course as college prep curriculum</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| **Music**                   | **Physical Education**       | **Science**                          |
| Chorus                      | Conditioning & Strength      | Chemistry                            |
| Wind Symphony +             | Lifeguard Training           | Environmental Science                |
| Jazz Ensemble +             | Student Leader +             | Anatomy & Physiology                 |
| Music Theory & Technology   | Senior Phy Ed                | AP Biology +                         |
| Cantanti                    | At the Club 3                | Advanced Chemistry                   |
| Concert Choir +             |                              | Physics                               |
| Symphonic Band              |                              | Earth and Space Science              |
| AP Music Theory +           |                              | PLTW – Environ. Sustainability       |

| **Social Studies**          | **Work Experience**          | **World Language**                   |
| AP Human Geography +        | 21st Century Work Skills Co-Op + | German 1, 2, 3, 4 | |
| AP European History +       | Family/Consumer Science Co-Op + | Spanish 1, 2, 3, 4, 5 | |
| Consumer Education *        | Youth Apprenticeship I/II +  |                                     |
| Introduction to Economics   | + Teacher recommendation required |                                     |
CAREER EDUCATION

POSTSECONDARY OPTIONS

TECHNICAL COLLEGES
Technical colleges provide affordable, career-oriented programs which enable students to begin their careers after only one or two years of college. Students completing one-year programs receive certificates or diplomas, while students completing two-year programs earn associate's degrees. Students may also start their education at a technical college, and then transfer to a four-year college to earn a bachelor's degree.

Students in one- and two-year programs at technical colleges largely take those courses that are going to prepare them specifically for their career fields. However, students pursuing associate's degrees are required to complete a certain number of general education courses. The tuition at technical colleges is generally very affordable, and class sizes are kept small, with professors who have worked, or are working, in a related career field.

Students do not need to follow a college preparatory program in high school in order to be accepted at a technical college. In addition, technical colleges usually do not require the ACT or SAT. However, placement tests are generally required.

The following websites provide further information on Technical Colleges:
http://www.wtcsystem.edu/

FOUR-YEAR COLLEGES
A four-year college education, or bachelor's degree, is necessary for approximately 20% of today's careers. All colleges hope to attract bright, well-prepared students. Colleges vary greatly, however, in their majors offered, admission policies, and costs.

Most four-year colleges require students to take 25% to 50% of their classes in general education courses like English, math, science, and social studies. A wide variety of majors are offered at most four-year colleges.

Four-year colleges vary with regards to entrance requirements. Some will accept most high school graduates who apply; others have high GPA, class rank, and test score requirements. However, all four-year colleges want students to have followed a college preparatory curriculum in high school (i.e., 4 years of English, 3 years of mathematics, 3 years of science, 3 years of social studies, and a number of additional elective units). If students do not meet these curriculum requirements, they may have to take additional and/or remedial courses once in college or start at a community college and then transfer to a four-year college after a year or two.

Students planning to go to a four-year college should plan to take the ACT or SAT during the spring of their junior year or fall of their senior year. The costs of four-year colleges vary greatly, with private school costing more than public schools. However, financial assistance often times makes it possible for students to attend colleges they might have originally considered too expensive. All students are strongly encouraged to fill out the FAFSA (Free Application for Federal Student Aid), which determines financial aid eligibility.

The following websites provide further information on 4-Year Colleges/Universities:
http://uwhelp.wisconsin.edu/
http://www.wisconsinsprivatecolleges.org/
http://www.collegedata.com/
https://bigfuture.collegeboard.org/college-search

THE MILITARY
The military trains young men and women so that they can protect the interests of our country. In order to do this, the military offers qualified high school graduates a good salary and free job training. The military also provides discipline and structure, as well as opportunities for career advancement and travel. The United States Military is the nation's single largest employer. It offers training and employment in over 2,000 job specialties, 75% of which have civilian counterparts.

The United States Military is made up of the Army, Navy, Air Force, and Marines. Opportunities are also available in the Coast Guard, National Guard, and Merchant Marine Reserves. Students who take ROTC will enter the military as officers, and academically gifted students can find excellent educational opportunities at the four military academies.
CAREER EDUCATION

In order for students to enlist, they must be high school graduates, earn a minimum score on the ASVAB (Armed Services Vocational Aptitude Battery), and be of good character. They must also be healthy, in good physical condition, and be able to pass a physical exam.

Students who enlist are usually obligated to fulfill two to six years of active duty. Enlistees must also go through 6-10 weeks of basic training.

The Montgomery GI Bill provides enlistees with an opportunity to earn money for college while they are in the military.

The following websites provide further information on the Military:

http://todaysmilitary.com/joining
http://www.goarmy.com
http://www.navy.com/
http://www.airforce.com/
https://www.marines.com
http://www.gocoastguard.com/
http://benefits.va.gov/gibill/

APPRENTICESHIPS

Students who prefer a hands-on approach to learning may want to consider an apprenticeship program. Apprentices learn a skilled trade through a combination of classroom instruction and on-the-job training. Apprenticeship programs are considered by many to be the best way to receive training in the skilled trades.

Apprenticeships are agreements in which employers pay individuals while they are learning their trade or profession. The programs usually last approximately 4 years, but can last anywhere from one to six years. Apprentices work under the supervision of journeymen and receive about 2,000 hours of supervised on-the-job training per year. Apprentices are also required to attend classes in addition to working.

Getting into an apprenticeship can sometimes be difficult. Applicants must have their high school diploma or HSED/GED, be 18 years of age, and be physically fit. Vocational training, good math skills, and job experience will give applicants the advantage when competing for apprenticeship openings.

The following websites provide further information on Apprenticeships:

http://dwd.wisconsin.gov/apprenticeship/
https://www.wistechcolleges.org/apprenticeship

EMPLOYMENT

Employment is the most appropriate option for some. However, high school graduates with no vocational training will probably find that they have limited career options. In most cases, they will not be making much more than minimum wage and will find that their opportunities for advancement will be limited. On the other hand, business and industry are always anxious to find employees who are hard-working, polite, punctual, well-groomed, willing to learn, and able to get along with others. Students with talents in sales, art, computers, etc. can be very valuable to employers.

High school graduates should try to find a job in an area that might interest them as a career. Students who choose employment as their post-high school option should have a five-year plan. This will help ensure that they do not get trapped in a dead-end job. These students should realize that they can go back to school anytime, even if it is only to take a course or two.

The following websites provide further information on Employment:

http://www.careeronestop.org/
https://jobcenterofwisconsin.com/wisconomy/
http://www.onetonline.org/
http://www.bls.gov
COLLEGE PREP CHECKLIST

9TH GRADE

✓ Take challenging classes in English, mathematics, science, history, a foreign language, and the arts.
✓ Study hard and do well in school. From now on your grades will count toward college and will show up on your transcript, or permanent record.
✓ Establish strong study habits and time management techniques.
✓ Get to know your school counselor as well as other college resources available in your school. Let him or her get to know you and your goals, career aspirations, schools you are considering, etc.
✓ Become familiar with college entrance requirements.
✓ Become involved in school- or community-based extracurricular (before or after school) activities that interest you and/or enable you to explore career interests.
✓ Explore and participate in community service.
✓ Begin keeping track of all of the extracurricular and volunteer activities you participate in as well, leadership positions you hold, and any honors/awards you receive.
✓ Explore careers on the internet using Career Cruising.
✓ Talk to adults in a variety of professions to determine what they like and dislike about their jobs and what kind of education is needed for each kind of job.
✓ Continue/begin to save for college.

10TH GRADE

✓ Take challenging classes in English, mathematics, science, history, a foreign language, and the arts.
✓ Study hard and do well in school. Your grades will count toward college and will show up on your transcript, or permanent record.
✓ Meet with your school counselor to discuss colleges and their requirements.
✓ Start attending college fairs in your area (where colleges come in and give away information about their schools).
✓ Take advantage of opportunities to visit colleges and talk to students.
✓ Become involved in school- or community-based extracurricular (before or after school) activities that interest you and/or enable you to explore career interests.
✓ Continue to keep track of all of the extracurricular and volunteer activities you participate in, leadership positions you hold, and any honors/awards you receive.
✓ Continue exploring careers on the internet using Career Cruising
✓ Talk to adults in a variety of professions to determine what they like and dislike about their jobs and what kind of education is needed for each kind of job.
✓ "Job shadow" someone who does what you think you'd like to do.
✓ Continue/begin to save for college.

11TH GRADE

✓ Take challenging classes in English, mathematics, science, history, a foreign language, government, civics, economics and the arts.
✓ This year's academic record will go a long way toward either helping or hurting your chances of gaining admission to your schools of choice. You can make up ground if you've been slacking and you can keep up the hard work you've already exhibited.
✓ Take the PSAT test in October.
✓ Meet with your school counselor to discuss colleges and their requirements.
COLLEGE PREP CHECKLIST

11TH GRADE (CON’T)

✓ Ask your high school counselor for suggestions as to colleges you should consider but might not have thought of on your own (based on major, scholarships, location, etc.)
✓ Talk to college representatives at college fairs.
✓ Visit colleges and talk to students.
✓ Decide which colleges most interest you. Go online to colleges’/universities’ websites to request information and an application for admission.
✓ Get to know the admission criteria for your top schools. Know where you stand in relation to those requirements and work toward changing what you can (if you fall short).
✓ Consider people to ask for recommendations – teachers, counselors, employers, etc.
✓ Investigate the availability of financial aid from federal, state, local, and private sources as well as scholarships. Talk to your school counselor for more information.
✓ Register for and take the ACT, SAT, or SAT Subject Tests or any other exams required for admission to the colleges you might want to attend.
✓ Attend an ACT/SAT preparation workshop (if you can't, you should utilize practice books, software, etc. to help you prepare)
✓ Continue involvement in school- or community-based extracurricular activities.
✓ Run for leadership positions in the organizations you are involved in.
✓ Continue to keep track of all of the extracurricular and volunteer activities you participate in, leadership positions you hold, and any honors/awards you receive.
✓ Register with NCAA Clearinghouse by the end of your junior year if you want to play competitive sports in college (Division I or II).
✓ Continue/begin to save for college.

12TH GRADE

✓ Take challenging classes in English, mathematics, science, history, a foreign language, government, civics, economics, the arts, and advanced technologies.
✓ Study hard and do well in school. The college/university you attend will eventually see your senior year grades. A sharp decline in performance could result in your admission being rescinded.
✓ Meet with your school counselor early in the year to discuss your plans. Make sure he/she knows what you’re looking for in a college so he/she can help you choose the best one for you.
✓ Attend college fairs in your area.
✓ Visit college campuses, visit many, visit often. Attend events at the colleges you are interested in as well.
✓ Go stay with friends who are in college. Find out what they like and dislike.
✓ Sit down with everyone who has a stake in your college decision and solicit their input. Listen to what everyone has to say. Talk to people whose opinions you respect about the schools you are considering.
✓ Line up people to write letters of recommendation (choose people who actually know you, not just those with a cool title). Give them plenty of time to write the letter(s).
✓ Register for and take the ACT, SAT, or SAT Subject Tests or any other exams required for admission to the colleges you might want to attend.
✓ Go online to colleges'/universities’ websites to request information and applications for admission. Ask about financial aid, admissions requirements, housing, and deadlines.
**COLLEGE PREP CHECKLIST**

12th GRADE (CON’T)

- Get to know the admission criteria for your top schools. Know where you stand in relation to those requirements and work toward changing what you can (if you fall short). If you do fall short of the requirements, early application could be your ticket “in”.
- Work on your college admission essays
- Prepare your application carefully. Follow the instructions, and PAY CLOSE ATTENTION TO DEADLINES! Be sure to ask your school counselor and teachers at least two weeks before your application deadlines to submit the necessary documents to colleges (your transcript, letters of recommendation, etc.)
- Talk to your high school counselor about local scholarships and get the applications.
- Keep checking back periodically throughout the year for information on the latest scholarships
- Complete all necessary financial aid forms, especially the Free Application for Federal Student Aid (FAFSA). Apply online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov)
# Career Clusters Interest Survey

**Name:** ____________________________

**School:** ____________________________  **Date:** __________________________

**Directions:** Circle the items in each box the best describe you. You may make as many or as few circles in each box as you choose. Add up the number of circles in each box. Look to see which three boxes have the highest numbers. Find the corresponding Career clusters on the pages immediately following this survey to see which Career Clusters you may want to explore.

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>Activities that describe what I like to do:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Learn how things grow and stay alive.</td>
</tr>
<tr>
<td>2.</td>
<td>Make the best use of the earth’s natural resources.</td>
</tr>
<tr>
<td>3.</td>
<td>Hunt and/or fish.</td>
</tr>
<tr>
<td>4.</td>
<td>Protect the environment.</td>
</tr>
<tr>
<td>5.</td>
<td>Be outdoors in all kinds of weather.</td>
</tr>
<tr>
<td>6.</td>
<td>Plan, budget, and keep records.</td>
</tr>
<tr>
<td>7.</td>
<td>Operate machines and keep them in good repair.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Personal qualities that describe me:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Self-reliant</td>
</tr>
<tr>
<td>2. Nature lover</td>
</tr>
<tr>
<td>3. Physically active</td>
</tr>
<tr>
<td>4. Planner</td>
</tr>
<tr>
<td>5. Creative problem solver</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School subjects that I like:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Math</td>
</tr>
<tr>
<td>2. Life Sciences</td>
</tr>
<tr>
<td>3. Earth Sciences</td>
</tr>
<tr>
<td>4. Chemistry</td>
</tr>
<tr>
<td>5. Agriculture</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Total number circled in Box 1</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>BOX 2</th>
<th>Activities that describe what I like to do:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Read and follow blueprints and/or instructions.</td>
</tr>
<tr>
<td>2.</td>
<td>Picture in my mind what a finished product looks like.</td>
</tr>
<tr>
<td>3.</td>
<td>Work with my hands.</td>
</tr>
<tr>
<td>4.</td>
<td>Perform work that requires precise results.</td>
</tr>
<tr>
<td>5.</td>
<td>Solve technical problems.</td>
</tr>
<tr>
<td>6.</td>
<td>Visit and learn from beautiful, historic, or interesting buildings.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Personal qualities that describe me:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Curious</td>
</tr>
<tr>
<td>2. Good at following directions</td>
</tr>
<tr>
<td>3. Pay attention to detail</td>
</tr>
<tr>
<td>4. Good at visualizing possibilities</td>
</tr>
<tr>
<td>5. Patient and persistent</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School subjects that I like:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Math</td>
</tr>
<tr>
<td>2. Drafting</td>
</tr>
<tr>
<td>3. Physical Sciences</td>
</tr>
<tr>
<td>4. Construction Trades</td>
</tr>
<tr>
<td>5. Electrical Trades/ Heat, Air Conditioning and Refrigeration/ Technology Education</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total number circled in Box 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOX 3</td>
</tr>
<tr>
<td>-------</td>
</tr>
</tbody>
</table>
| 1. Use my imagination to communicate new information to others.  
2. Perform in front of others.  
3. Read and write.  
4. Play a musical instrument.  
5. Perform creative, artistic activities.  
6. Using video and recording technology.  
7. Design brochures and posters. | 1. Creative and imaginative  
2. Good communicator/ good vocabulary  
3. Curious about new technology  
4. Relate well to feelings and thoughts of others  
5. Determined/ tenacious | 1. Art/Graphic Design  
2. Music  
3. Speech and Drama  
4. Journalism/ Literature  
5. Audiovisual Technologies | | |
<table>
<thead>
<tr>
<th>BOX 4</th>
<th>Activities that describe what I like to do:</th>
<th>Personal qualities that describe me:</th>
<th>School subjects that I like:</th>
<th>Total number circled in Box 4</th>
</tr>
</thead>
</table>
| 1. Perform routine, organized activities but can be flexible.  
2. Work with numbers and detailed information.  
3. Be the leader in a group.  
4. Make business contact with people.  
5. Work with computer programs.  
6. Create reports and communicate ideas.  
7. Plan my work and follow instructions without close supervision. | 1. Organized  
2. Practical and logical  
3. Patient  
4. Tactful  
5. Responsible | 1. Computer Applications/ Business and Information Technology  
2. Accounting  
3. Math  
4. English  
5. Economics | | |
<table>
<thead>
<tr>
<th>BOX 5</th>
<th>Activities that describe what I like to do:</th>
<th>Personal qualities that describe me:</th>
<th>School subjects that I like:</th>
<th>Total number circled in Box 5</th>
</tr>
</thead>
</table>
| 1. Communicate with different types of people.  
2. Help others with their homework or to learn new things.  
3. Go to school.  
4. Direct and plan activities for others.  
5. Handle several responsibilities at once.  
6. Acquire new information.  
7. Help people overcome their challenges. | 1. Friendly  
2. Decision-maker  
3. Helpful  
4. Innovative/ Inquisitive  
5. Good listener | 1. Language Arts  
2. Social Studies  
3. Math  
4. Science  
5. Psychology | | |
<table>
<thead>
<tr>
<th>BOX 6</th>
<th>Activities that describe what I like to do:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Work with numbers.</td>
</tr>
<tr>
<td>2.</td>
<td>Work to meet a deadline.</td>
</tr>
<tr>
<td>3.</td>
<td>Make predictions based on existing facts.</td>
</tr>
<tr>
<td>4.</td>
<td>Have a framework of rules by which to operate.</td>
</tr>
<tr>
<td>5.</td>
<td>Analyze financial information and interpret it to others.</td>
</tr>
<tr>
<td>6.</td>
<td>Handle money with accuracy and reliability.</td>
</tr>
<tr>
<td>7.</td>
<td>Take pride in the way I dress and look.</td>
</tr>
<tr>
<td></td>
<td>Personal qualities that describe me:</td>
</tr>
<tr>
<td>1.</td>
<td>Trustworthy</td>
</tr>
<tr>
<td>2.</td>
<td>Orderly</td>
</tr>
<tr>
<td>3.</td>
<td>Self-confident</td>
</tr>
<tr>
<td>4.</td>
<td>Logical</td>
</tr>
<tr>
<td>5.</td>
<td>Methodical or efficient</td>
</tr>
<tr>
<td></td>
<td>School subjects that I like:</td>
</tr>
<tr>
<td>1.</td>
<td>Accounting</td>
</tr>
<tr>
<td>2.</td>
<td>Math</td>
</tr>
<tr>
<td>3.</td>
<td>Economics</td>
</tr>
<tr>
<td>4.</td>
<td>Banking/Financial Services</td>
</tr>
<tr>
<td>5.</td>
<td>Business Law</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BOX 7</th>
<th>Activities that describe what I like to do:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Be involved in politics.</td>
</tr>
<tr>
<td>2.</td>
<td>Negotiate, defend, and debate ideas and topics.</td>
</tr>
<tr>
<td>3.</td>
<td>Plan activities and work cooperatively with others.</td>
</tr>
<tr>
<td>4.</td>
<td>Work with details.</td>
</tr>
<tr>
<td>5.</td>
<td>Perform a variety of duties that may change often.</td>
</tr>
<tr>
<td>6.</td>
<td>Analyze information and interpret it to others.</td>
</tr>
<tr>
<td>7.</td>
<td>Travel and see things that are new to me.</td>
</tr>
<tr>
<td></td>
<td>Personal qualities that describe me:</td>
</tr>
<tr>
<td>1.</td>
<td>Good communicator</td>
</tr>
<tr>
<td>2.</td>
<td>Competitive</td>
</tr>
<tr>
<td>3.</td>
<td>Service-minded</td>
</tr>
<tr>
<td>4.</td>
<td>Well-organized</td>
</tr>
<tr>
<td>5.</td>
<td>Problem solver</td>
</tr>
<tr>
<td></td>
<td>School subjects that I like:</td>
</tr>
<tr>
<td>1.</td>
<td>Government</td>
</tr>
<tr>
<td>2.</td>
<td>Language Arts</td>
</tr>
<tr>
<td>3.</td>
<td>History</td>
</tr>
<tr>
<td>4.</td>
<td>Math</td>
</tr>
<tr>
<td>5.</td>
<td>Foreign Language</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BOX 8</th>
<th>Activities that describe what I like to do:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Work under pressure.</td>
</tr>
<tr>
<td>2.</td>
<td>Help sick people and animals.</td>
</tr>
<tr>
<td>3.</td>
<td>Make decisions based on logic and information.</td>
</tr>
<tr>
<td>4.</td>
<td>Participate in health and science classes.</td>
</tr>
<tr>
<td>5.</td>
<td>Respond quickly and calmly in emergencies.</td>
</tr>
<tr>
<td>6.</td>
<td>Work as a member of a team.</td>
</tr>
<tr>
<td>7.</td>
<td>Follow guidelines precisely and meet strict standards of accuracy.</td>
</tr>
<tr>
<td></td>
<td>Personal qualities that describe me:</td>
</tr>
<tr>
<td>1.</td>
<td>Compassionate and caring</td>
</tr>
<tr>
<td>2.</td>
<td>Good at following directions</td>
</tr>
<tr>
<td>3.</td>
<td>Conscientious and careful</td>
</tr>
<tr>
<td>4.</td>
<td>Patient</td>
</tr>
<tr>
<td>5.</td>
<td>Good listener</td>
</tr>
<tr>
<td></td>
<td>School subjects that I like:</td>
</tr>
<tr>
<td>1.</td>
<td>Biological Sciences</td>
</tr>
<tr>
<td>2.</td>
<td>Chemistry</td>
</tr>
<tr>
<td>3.</td>
<td>Math</td>
</tr>
<tr>
<td>4.</td>
<td>Occupational Health classes</td>
</tr>
<tr>
<td>5.</td>
<td>Language Arts</td>
</tr>
<tr>
<td>BOX 9</td>
<td>Activities that describe what I like to do:</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>1. Investigate new places and activities.</td>
<td>1. Tactful</td>
</tr>
<tr>
<td>2. Work with all ages and types of people.</td>
<td>2. Self-motivated</td>
</tr>
<tr>
<td>3. Organize activities in which other people enjoy themselves.</td>
<td>3. Works well with others</td>
</tr>
<tr>
<td>4. Have a flexible schedule.</td>
<td>4. Outgoing</td>
</tr>
<tr>
<td>5. Help people make up their minds.</td>
<td>5. Slow to anger</td>
</tr>
<tr>
<td>6. Communicate easily, tactfully, and courteously.</td>
<td></td>
</tr>
<tr>
<td>7. Learn about other cultures.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BOX 10</th>
<th>Activities that describe what I like to do:</th>
<th>Personal qualities that describe me:</th>
<th>School subjects that I like:</th>
<th>Total number circled in Box 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Care about people, their needs, and their problems.</td>
<td>1. Good communicator/ good listener</td>
<td>1. Language Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Participate in community services and/or volunteering.</td>
<td>2. Caring</td>
<td>2. Psychology/ Sociology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Listen to other people’s viewpoints.</td>
<td>3. Non-materialistic</td>
<td>3. Family and Consumer Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Help people be at their best.</td>
<td>4. Intuitive and logical</td>
<td>4. Finance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Work with people from preschool age to old age.</td>
<td>5. Non-judgmental</td>
<td>5. Foreign Language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Think of new ways to do things.</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>7. Make friends with different kinds of people.</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>BOX 11</th>
<th>Activities that describe what I like to do:</th>
<th>Personal qualities that describe me:</th>
<th>School subjects that I like:</th>
<th>Total number circled in Box 11</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Work with computers.</td>
<td>1. Logical/analytical thinker</td>
<td>1. Math</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Reason clearly and logically to solve complex problems.</td>
<td>2. See details in the big picture</td>
<td>2. Science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Use machines, techniques, and processes.</td>
<td>3. Persistent</td>
<td>3. Computer Tech/ Applications</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Read technical materials and diagrams and solve technical problems.</td>
<td>4. Good concentration skills</td>
<td>4. Communications</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Adapt to change.</td>
<td>5. Precise and accurate</td>
<td>5. Graphic Design</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Play video games and figure out how they work.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Concentrate for long periods without being distracted.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BOX 12</td>
<td>BOX 13</td>
<td>BOX 14</td>
<td></td>
<td></td>
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<tr>
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<td></td>
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<tr>
<td><strong>Activities that describe what I like to do:</strong></td>
<td><strong>Activities that describe what I like to do:</strong></td>
<td><strong>Activities that describe what I like to do:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Work under pressure or in the face of danger.</td>
<td>1. Work with my hands and learn that way.</td>
<td>1. Shop and go to the mall.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Make decisions based on my own observations.</td>
<td>2. Put things together.</td>
<td>2. Be in charge.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Interact with other people.</td>
<td>3. Do routine, organized and accurate work.</td>
<td>3. Make displays and promote ideas.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Be in positions of authority.</td>
<td>4. Perform activities that produce tangible results.</td>
<td>4. Give presentations and enjoy public speaking.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Respect rules and regulations.</td>
<td>5. Apply math to work out solutions.</td>
<td>5. Persuade people to buy products or to participate in activities.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Debate and win arguments.</td>
<td>6. Use hand and power tools and operate equipment/machinery.</td>
<td>6. Communicate my ideas to other people.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Observe and analyze people’s behavior.</td>
<td>7. Visualize objects in three dimensions from flat drawings.</td>
<td>7. Take advantage of opportunities to make extra money.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Personal qualities that describe me:</strong></td>
<td><strong>Personal qualities that describe me:</strong></td>
<td><strong>Personal qualities that describe me:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Adventurous</td>
<td>1. Practical</td>
<td>1. Enthusiastic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Dependable</td>
<td>2. Observant</td>
<td>2. Competitive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Optimistic</td>
<td>5. Coordinated</td>
<td>5. Persuasive</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>School subjects that I like:</strong></td>
<td><strong>School subjects that I like:</strong></td>
<td><strong>School subjects that I like:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Language Arts</td>
<td>1. Math – Geometry</td>
<td>1. Language Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. First Aid/First Responder</td>
<td>5. Language Arts</td>
<td>5. Computer Applications</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total number circled in Box 12</strong></td>
<td><strong>Total number circled in Box 13</strong></td>
<td><strong>Total number circled in Box 14</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**BOX 15**

**Activities that describe what I like to do:**
1. Interpret formulas.
2. Find the answers to questions.
3. Work in a laboratory.
4. Figure out how things work and investigate new things.
5. Explore new technology.
6. Experiment to find the best way to do something.
7. Pay attention to details and help things be precise.

**Personal qualities that describe me:**
1. Detail oriented
2. Inquisitive
3. Objective
4. Methodical
5. Mechanically inclined

**School subjects that I like:**
1. Math
2. Science
3. Drafting/Computer Aided Drafting
4. Electronics/Computer Networking
5. Technical Classes/Technology Education

**Total number circled in Box 15**

**BOX 16**

**Activities that describe what I like to do:**
1. Travel.
2. See well and have quick reflexes.
3. Solve mechanical problems.
4. Design efficient processes.
5. Anticipate needs and prepare to meet them.
6. Drive or ride.
7. Move things from one place to another.

**Personal qualities that describe me:**
1. Realistic
2. Mechanical
3. Coordinated
4. Observant
5. Planner

**School subjects that I like:**
1. Math
2. Trade and Industry courses
3. Physical Sciences
4. Economics
5. Foreign Language

**Total number circled in Box 16**

My top three career clusters of interest are:
1) ____________________________________________
2) ____________________________________________
3) ____________________________________________

Disclaimer: Your interests may change over time. These survey results are intended to assist you with informal career exploration. Consider more formal assessments and other resources or services to help you plan your career. This survey does not make any claims of statistical reliability.
# THE 16 CAREER CLUSTERS

<table>
<thead>
<tr>
<th>No.</th>
<th>Career Cluster</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Agriculture, Food &amp; Natural Resources</td>
<td>The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.</td>
</tr>
<tr>
<td>2</td>
<td>Architecture &amp; Construction</td>
<td>Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.</td>
</tr>
<tr>
<td>3</td>
<td>Arts, A/V Technology &amp; Communications</td>
<td>Careers in designing, planning, managing, building and maintaining the built environment.</td>
</tr>
<tr>
<td>4</td>
<td>Business Management &amp; Administration</td>
<td>Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.</td>
</tr>
<tr>
<td>5</td>
<td>Education &amp; Training</td>
<td>Planning, managing and providing education and training services, and related learning support services.</td>
</tr>
<tr>
<td>6</td>
<td>Finance</td>
<td>Planning, services for financial and investment planning, banking, insurance, and business financial management.</td>
</tr>
<tr>
<td>7</td>
<td>Government &amp; Public Administration</td>
<td>Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.</td>
</tr>
<tr>
<td>8</td>
<td>Health Science</td>
<td>Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.</td>
</tr>
<tr>
<td>9</td>
<td>Hospitality &amp; Tourism</td>
<td>Hospitality &amp; Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.</td>
</tr>
<tr>
<td>10</td>
<td>Human Services</td>
<td>Preparing individuals for employment in career pathways that relate to families and human needs.</td>
</tr>
<tr>
<td>12</td>
<td>Law, Public Safety, Corrections &amp; Security</td>
<td>Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.</td>
</tr>
<tr>
<td>13</td>
<td>Manufacturing</td>
<td>Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.</td>
</tr>
<tr>
<td>14</td>
<td>Marketing, Sales &amp; Service</td>
<td>Planning, managing, and performing marketing activities to reach organizational objectives.</td>
</tr>
<tr>
<td>15</td>
<td>Science, Technology, Engineering &amp; Mathematics</td>
<td>Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.</td>
</tr>
<tr>
<td>16</td>
<td>Transportation, Distribution &amp; Logistics</td>
<td>Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.</td>
</tr>
</tbody>
</table>
Agriculture in Wisconsin includes science, marketing, service, production, supply, processing, preservation of the food supply, plants, animals and natural resources. This area employs over 12 percent of Wisconsin’s workforce.

**Pathways**
- Food Products and Processing Systems
- Plant Systems
- Animal Systems
- Power, Structural, and Technical Systems
- Natural Resources Systems
- Environmental Service Systems
- Agribusiness Systems

**Interests and Abilities**

**Activities That Describe What I Like to Do:**
- Learn how things grow and stay alive.
- Make the best use of the earth’s natural resources.
- Hunt and/or fish.
- Protect the environment.
- Be outdoors in all kinds of weather.
- Plan, budget, and keep records.
- Operate machines and keep them in good repair.

**Personal Qualities That Describe Me:**
- Self-reliant
- Nature lover
- Physically active
- Planner
- Creative problem solver

**School Subjects That I Like:**
- Math
- Life Sciences
- Earth Science
- Chemistry
- Agriculture

**Career Options**

**From High School**
(on-the-job training and/or minimal experience)
- Bee Keeper
- Crop Sprayer
- Farm Worker
- Fisherman
- Landscape Laborer
- Logger
- Nursery Worker
- Pet Groomer
- Pet Shop Worker
- Stable Worker
- Vet Hospital Worker

**Careers with Certification/Associate Degree**
(community college, technical college, apprenticeship, experience)
- Arborist
- Animal Control Officer
- Animal Nutritionist
- Bio-Tech Lab Technician
- Cheese Maker
- Crop and/or Animal Farmer
- Environmental Technician
- Farrier
- Fish & Game Officer
- Forestry Technician
- Genetic Technologist
- Golf Course Manager
- Greenhouse Manager
- Horticulturist
- Landscape Designer
- Quality Food Control Specialist
- Turf Manager
- Veterinary Technician
- Waster Water Technician

**Bachelor’s, Pre-Professional or Higher Degree**
(colleges/universities)
- Agricultural Commodities Broker
- Agricultural Economist
- Agricultural Educator
- Agricultural Engineer
- Agricultural Sales & Communications
- Agriculture Banker
- Animal Psychologist
- Animal Scientist
- Biochemist
- Botanist
- Entomologist
- Food Scientist
- Forester
- Game Warden
- Geneticist
- Greenhouse Operator
- Landscape Architect
- Marine Biologist
- Soil Geologist
- Soil Scientist
- Toxicologist
- USDA Inspector
- Veterinarian
- Wildlife Biologist
- Zoologist

**Recommended Germantown High School Courses and Electives**

<table>
<thead>
<tr>
<th>AP Biology</th>
<th>Chemistry</th>
<th>Environmental Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Chemistry</td>
<td>Earth and Space Science</td>
<td>Environmental Sustainability</td>
</tr>
<tr>
<td>AP Seminar</td>
<td>AP Research</td>
<td>AP Human Geography</td>
</tr>
<tr>
<td>Youth Apprenticeship</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Careers in designing, planning, managing, building, and maintaining the built environment.

**Pathways**
- Design/Pre-Construction
- Construction
- Maintenance/Operations

**Interests and Abilities**

**Activities That Describe What I Like to Do:**
- Read and follow blueprints and/or instructions.
- Picture in my mind what a finished product looks like.
- Work with my hands.
- Perform work that requires precise results.
- Solve technical problems.
- Visit and learn from beautiful, historic, or interesting buildings.
- Follow logical, step-by-step procedures.

**Personal Qualities That Describe Me:**
- Curious
- Good at following directions
- Pay attention to detail
- Good at visualizing possibilities
- Patient and persistent

**School Subjects That I Like:**
- Math
- Drafting
- Physical Sciences
- Construction Trades
- Electrical Trades/
  - Heat, Air Conditioning and Refrigeration/
  - Technology Education

---

**Career Options**

**From High School**
(on-the-job training and/or minimal experience)
- Construction Laborer
- Fence Builder
- Construction Work Helper
- Highway Maintenance Worker

**Careers with Certification/Associate Degree**
(community college, technical college, apprenticeship, experience)
- Air Conditioning Technician
- Architectural Drafter
- Bricklayer
- Carpenter
- Cement Mason
- Drywall Installer
- Electrician
- Glazier
- Pipefitter
- Plasterer
- Plumber
- Tile Setter

**Bachelor’s, Pre-Professional or Higher Degree**
(colleges/universities)
- Architect
- Building Contractor
- C.A.D. Designer
- Civil Engineer
- Cost Estimator
- Electrical Engineer
- Grounds Supervisor
- Interior Design
- Landscape Architect

---

**Recommended Germantown High School Courses and Electives**

- Intro to Woodworking
- Woodworking Design & Techniques
- Building Construction
- Intro to Computer Aided Design
- Civil Engineering & Architecture
- AP Computer Science Principles
- AP Human Geography
- Architectural Drafting/Design
- Principles of Engineering
- Intro to Engineering Design
- Physics
- Digital Electronics
- AP Seminar
- Advanced Algebra
- Pre-Calculus
- Calculus AB/BC/III
- Interior Design
- AP Physics
- AP Research
Career Options

From High School
(on-the-job training and/or minimal experience)

- Floral Designer
- Stained Glass
- Food Stylist
- Mural Painter
- Musician
- Photographer
- Proofreader
- Pre-Press
- Sign Designer/Painter

Careers with Certification/Associate Degree
(community college, technical college, apprenticeship, experience)

- Animator
- Printing Press Operator
- Bookbinder
- Recording Technician
- Broadcast Technician
- Taxidermist
- Caption Writer
- Public Relations Manager
- Communications Line Maintainers
- Potter
- Craft Artist
- Graphic Designer
- Prepress Technician

Bachelor’s, Pre-Professional or Higher Degree
(colleges/universities)

- Animator
- Jeweler
- Artist
- Architect
- Cinematographer
- Interior Decorator
- Composer
- Art Teacher
- Copy Editor
- Art Professor
- Dancer
- Art Therapist
- Photographer
- Graphic Designer
- Potter
- Videographer
- Set Designers
- Reporter
- Journalist
- Illustrator

Interests and Abilities

Activities That Describe What I Like to Do:
- Use my imagination to communicate new information to others.
- Perform in front of others.
- Read and write.
- Play a musical instrument.
- Perform creative, artistic activities.
- Using video and recording technology.
- Design brochures and posters.

Personal Qualities That Describe Me:
- Creative and imaginative
- Good communicator/ good vocabulary
- Curious about new technology
- Relate well to feelings and thoughts of others
- Determined/ tenacious

School Subjects That I Like:
- Art/Graphic Design
- Music
- Speech and Drama
- Journalism/ Literature
- Audiovisual Technologies

Recommended Germantown High School Courses and Electives

- Exploratory Art A/B/Accel.
- (Advanced) Ceramics
- Graphic Design
- (Advanced) Drawing
- (Advanced) Photography
- AP Studio Art I
- AP Studio Art II
- Printmaking
- Metals
- (Advanced) Painting
- (Advanced) Sculpture
- Comedy/Tragedy
- World Literature
- Youth Apprenticeship
- Comp for College
- Arg & Per
- American Novel
- Interior Design
- Chorus
- Music Theory
- Concert Choir

- Cantanti
- Writing for Publication
- Theater Concepts
- Wind Symphony
- Jazz Band
- Intro to Communication
- Computer Sci Princ.
- Concert Winds
- Symphonic Band
- Digital Electronics
- AP Music Theory
- Critical Thinking & Writing
- AP Research
- AP Seminar
Career Options

From High School
(on-the-job training and/or minimal experience)

- Bank Teller
- Caterer
- File Clerk
- Mail Clerk
- Meter Reader
- Receptionist
- Sales Clerk
- Telephone Operator
- Typist

Careers with Certification/Associate Degree
(community college, technical college, apprenticeship, experience)

- Accountant
- Administrative Assistant
- Computer Operator
- Court Reporter
- Kennel Owner
- Small Business Owner
- Stenographer
- Tax Preparer

Bachelor’s, Pre-Professional or Higher Degree
(colleges/universities)

- Advertising Manager
- Art Director
- Business & Industry Consultant
- Health Care Administrator
- Human Resource Manager
- Marketing Manager
- Sales Representative
- Theater Manager
- Travel Agency Manager

Pathways

- General Management
- Business Information Management
- Human Resources Management
- Operations Management
- Administrative Support

Interests and Abilities

Activities That Describe What I Like to Do:

- Perform routine, organized activities but can be flexible.
- Work with numbers and detailed information.
- Be the leader in a group.
- Make business contact with people.
- Work with computer programs.
- Create reports and communicate ideas.
- Plan my work and follow instructions without close supervision.

Personal Qualities That Describe Me:

- Organized
- Practical and logical
- Patient
- Tactful
- Responsible

School Subjects That I Like:

- Computer Applications/ Business and Information Technology
- Accounting
- Math
- English
- Economics

Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administrations career opportunities are available in every sector of the economy.

Recommended Germantown High School Courses and Electives

Accounting
Advanced Accounting
Intro to Business/Career Entrepreneurship
Marketing Principles
Int’l Bus & Marketing
Sports & Entertain Mkt
21st Century Skills Co-Op
Website Design
Desktop Applications
Microsoft Word & PP
Microsoft Office XP
Economics
Keyboarding/Type
Consumer Education
Personal Financial Lit
AP Economics
AP Seminar
AP Research
Planning, managing, and providing education and training services, and related learning support services.

**Career Options**

**From High School**  
(on-the-job training and/or minimal experience)

- Aerobic Instructor
- Child Care Assistant
- Library Assistant
- Self-Enrichment Teacher
- Dance Teacher

**Careers with Certification/Associate Degree**  
(community college, technical college, apprenticeship, experience)

- Preschool Teacher
- Sign Language Interpreter
- Teacher Assistant

**Bachelor’s, Pre-Professional or Higher Degree**  
(colleges/universities)

- Apprenticeship Consultant
- School Psychologist
- Bilingual Educator
- Secondary School Teacher
- Educational Administrator
- Teacher of the Blind
- Instructional Coordinator
- Vocational Ed Teacher
- Kindergarten Teacher
- Agri-Science Instructor

**Pathways**

- Administration and Administrative Support
- Professional Support Services
- Teaching/Training

**Interests and Abilities**

**Activities That Describe What I Like to Do:**
- Communicate with different types of people.
- Help others with their homework or to learn new things.
- Go to school.
- Direct and plan activities for others.
- Handle several responsibilities at once.
- Acquire new information.
- Help people overcome their challenges.

**Personal Qualities That Describe Me:**
- Friendly
- Decision-maker
- Helpful
- Innovative/Inquisitive
- Good listener

**School Subjects That I Like:**
- Language Arts
- Social Studies
- Math
- Science
- Psychology

**Recommended Germantown High School Courses and Electives**

- Child Care Skills
- AP Psychology
- Social Problems
- Economics
- Psychology
- Sociology
- AP Economics
- TA – Peer Coach
- Teacher’s Aide – ILC
- Critical Thinking & Writing
- AP Seminar
- AP Research
- AP Human Geography
- AP Research

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Planning, services for financial and investment planning, banking, insurance, and business financial management.

**Pathways**
- Securities and Investments
- Business Finance
- Accounting
- Insurance
- Banking Services

**Interests and Abilities**

**Activities That Describe What I Like to Do:**
- Work with numbers.
- Work to meet a deadline.
- Make predictions based on existing facts.
- Have a framework of rules by which to operate.
- Analyze financial information and interpret it to others.
- Handle money with accuracy and reliability.
- Take pride in the way I dress and look.

**Personal Qualities That Describe Me:**
- Trustworthy
- Orderly
- Self-confident
- Logical
- Methodical or efficient

**School Subjects That I Like:**
- Accounting
- Math
- Economics
- Banking/Financial Services
- Business Law

**Recommended Germantown High School Courses and Electives**

| Accounting | Marketing Principles | Desktop Applications | Keyboarding/Typewriting |
| Advanced Accounting | Int'l Business & Marketing | Microsoft Word/Powerpoint | AP Psychology |
| Intro to Business/Career | Sports & Ent. Marketing | Microsoft Office XP | Consumer Education |
| 21st Cen Work Skills Co-Op | Personal Financial Literacy | Economics | AP Seminar |
| AP Economics | Website Design | Psychology | AP Research |
| AP Human Geography | Youth Apprenticeship | | |
Government & Public Administration

Executing governmental functions to include governance, national security, foreign service, planning, revenue and taxation, and management and administration at the local, state, and federal levels.

Pathways

- Governance
- National Security
- Foreign Service
- Planning
- Revenue and Taxation
- Regulation
- Public Management and Administration

Interests and Abilities

Activities That Describe What I Like to Do:

- Be involved in politics.
- Negotiate, defend, and debate ideas and topics.
- Plan activities and work cooperatively with others.
- Work with details.
- Perform a variety of duties that may change often.
- Analyze information and interpret it to others.
- Travel and see things that are new to me.

Personal Qualities That Describe Me:

- Good communicator
- Competitive
- Service-minded
- Well-organized
- Problem solver

School Subjects That I Like:

- Government
- Language Arts
- History
- Math
- Foreign Language

Career Options

From High School
(on-the-job training and/or minimal experience)

Mail Carrier
Postal Clerk
Drivers License Examiner
Mail Handling Machine Operator

Careers with Certification/Associate Degree
(community college, technical college, apprenticeship, experience)

Coroner
City Planning Aid
Building Inspector
Title Examiner
Accountant

Bachelor’s, Pre-Professional or Higher Degree
(colleges/universities)

Legislator
City Manager
Aviation Security Specialist
Special Operations Officer
Emergency Management Specialist
Political Scientist
Urban Planner

Recommend Germantown High School Courses and Electives

Argumentation and Persuasion
AP American History
Psychology
AP Psychology
Social Problems
Economics
German 1, 2, 3, 4
Political Science
Sociology
Spanish 1, 2, 3, 4, 5
Law and You
AP Economics
AP European History
AP Seminar
AP Research
AP Human Geography
Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

**Pathways**
- Therapeutic Services
- Diagnostic Services
- Health Informatics
- Support Services
- Biotechnology Research and Development

**Interests and Abilities**

**Activities That Describe What I Like to Do:**
- Work under pressure.
- Help sick people and animals.
- Make decisions based on logic and information.
- Participate in health and science classes.
- Respond quickly and calmly in emergencies.
- Work as a member of a team.
- Follow guidelines precisely and meet strict standards of accuracy.

**Personal Qualities That Describe Me:**
- Compassionate and caring
- Good at following directions
- Conscientious and careful
- Patient
- Good listener

**School Subjects That I Like:**
- Biological Sciences
- Chemistry
- Math
- Occupational Health classes
- Language Arts

---

**Career Options**

**From High School**  
(on-the-job training and/or minimal experience)

- Certified Nursing Assistant
- Food Service Worker
- Clerk
- Hospital Admitting

**Careers with Certification/Associate Degree**  
(community college, technical college, apprenticeship, experience)

- Emergency Medical Technician
- Registered Nurse
- Home Health Aide
- Surgical Technician
- Massage Therapist
- Translator & Interpreter
- Physical Therapy Aide
- Radiology Technologist
- Ultrasound Technician
- Surgical Technician

**Bachelor’s, Pre-Professional or Higher Degree**  
(colleges/universities)

- Athletic Trainer
- Pharmacist
- Chiropractor
- Primary Care
- Occupational Therapist
- Physician
- Dentist
- Psychiatrist
- Dietician
- Surgeon

---

**Recommended Germantown High School Courses and Electives**

Diversified Health Science Occupations 1
Diversified Health Science Occupations 2
TA – Peers Coach
Youth Apprenticeship

Human Relations
AP Biology
AP Seminar
AP Chemistry
Human Anatomy & Physiology
AP Research
Hospitality and Tourism encompasses the management, marketing and operations of restaurants and other food service, lodging, attractions, and recreation events and travel-related services.

**Pathways**
- Hotels and Food/Beverage Services
- Lodging
- Travel & Tourism
- Recreation, Amusements & Attractions
- Banking Services

**Interests and Abilities**

**Activities That Describe What I Like to Do:**
- Investigate new places and activities.
- Work with all ages and types of people.
- Organize activities in which other people enjoy themselves.
- Have a flexible schedule.
- Help people make up their minds.
- Communicate easily, tactfully, and courteously.
- Lean about other cultures.

**Personal Qualities That Describe Me:**
- Tactful
- Self-motivated
- Works well with others
- Outgoing
- Slow to anger

**School Subjects That I Like:**
- Language Arts/Speech
- Foreign Language
- Social Sciences
- Marketing
- Food Services

**Career Options**

**From High School**
(on-the-job training and/or minimal experience)
- Baggage Porter & Bellhop
- Gaming Change Person
- Cake Decorator
- & Booth Cashier
- Concierge
- Guide
- Day Worker
- Usher
- Food Attendant
- Wardrobe & Dressing
- Furniture Refinisher
- Room Attendant
- Furniture Refinisher

**Careers with Certification/Associate Degree**
(community college, technical college, apprenticeship, experience)
- Club Manager
- Recreation Director
- Conference Planner
- Restaurant Manager
- Food Service Supervisor
- Taxidermist
- Household Manager
- Translator (Interpreter)
- Motel & Hotel Manager

**Bachelor's, Pre-Professional or Higher Degree**
(colleges/universities)
- Archivist
- Park Ranger
- Coaches
- Recreation Director
- Conservation Technician
- Theater Manager
- Curator
- Translator/Interpreter
- Historian
- Zookeeper

**Recommended Germantown High School Courses and Electives**

<table>
<thead>
<tr>
<th>Accounting</th>
<th>Marketing Principles</th>
<th>Senior Foods</th>
<th>Spanish 1, 2, 3, 4, 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Accounting</td>
<td>21st Cen Work Skills Co-Op</td>
<td>AP Psychology</td>
<td>Entrepreneurship</td>
</tr>
<tr>
<td>Intro to Business/Career</td>
<td>Sports &amp; Ent. Marketing</td>
<td>AP Economics</td>
<td>Foods 2</td>
</tr>
<tr>
<td>Int'l Business &amp; Mkt</td>
<td>Foods 1</td>
<td>Sociology</td>
<td>Social Problems</td>
</tr>
<tr>
<td>Personal Financial Lit</td>
<td>AP Seminar</td>
<td>AP Research</td>
<td>Economics</td>
</tr>
</tbody>
</table>

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Preparing individuals for employment in career pathways that relate to families and human needs.

**Pathways**
- Early Childhood Development and Services
- Counseling & Mental Health Services
- Family & Community Services
- Personal Care Services
- Consumer Services

**Interests and Abilities**

**Activities That Describe What I Like to Do:**
- Care about people, their needs, and their problems.
- Participate in community services and/or volunteering.
- Listen to other people’s viewpoints.
- Help people be at their best.
- Work with people from preschool age to old age.
- Think of new ways to do things.
- Make friends with different kinds of people.

**Personal Qualities That Describe Me:**
- Good communicator/ good listener
- Caring
- Non-materialistic
- Intuitive and logical
- Non-judgmental

**School Subjects That I Like:**
- Language Arts
- Psychology/ Sociology
- Family and Consumer Sciences
- Finance
- Foreign Language

**Career Options**

**From High School**
(on-the-job training and/or minimal experience)
- Aerobic Instructor
- Household Cook
- Crossing Guard
- Nanny

**Careers with Certification/Associate Degree**
(community college, technical college, apprenticeship, experience)
- Community Organization Worker
- Nail Technician
- Cosmetologist
- Preschool Teacher
- Funeral Director
- Shoe Repairer
- Institutional Cook
- Skin Care Specialist

**Bachelor’s, Pre-Professional or Higher Degree**
(colleges/universities)
- Dietician
- School Counselor
- Investment Advisor
- Sociologist
- Placement Counselor
- Social Worker
- Psychologist
- Vocational Rehab Counselor

**Recommended Germantown High School Courses and Electives**

<table>
<thead>
<tr>
<th>Intro to Business/Career</th>
<th>Diversified Health Occupations 2</th>
<th>AP Psychology</th>
<th>Social Problems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Relations</td>
<td>Spanish 1, 2, 3, 4, 5</td>
<td>Psychology</td>
<td>Law &amp; You</td>
</tr>
<tr>
<td>Child Care Skills</td>
<td>Economics</td>
<td>Sociology</td>
<td>AP Economics</td>
</tr>
<tr>
<td>Diversified Health Occupations 1</td>
<td>German 1, 2, 3, 4</td>
<td>Consumer Education</td>
<td>Personal Financial Literacy</td>
</tr>
<tr>
<td>TA – Peer Coach</td>
<td>AP Seminar</td>
<td>AP Research</td>
<td>AP Human Geography</td>
</tr>
</tbody>
</table>
Career Options

From High School
(on-the-job training and/or minimal experience)

Careers in this field require more than minimal experience or on-the-job training.

Careers with Certification/Associate Degree
/community college, technical college, apprenticeship, experience

Computer Programmer
Data Communications
Computer Support Specialist
Analyst
Tool Programmer
Webmaster
Computer Systems Analyst

Bachelor’s, Pre-Professional or Higher Degree
(colleges/universities)

Animator
Illustrator
Computer Engineer
Scientific & Engineering
Computer Network
Programmer
Coordinator
Software Engineer
Database Administrator
Webmaster

Building linkages in IT occupations framework for entry-level, technical, and professional careers related to the design, development, support and management of hardware, software, multimedia, and systems integration services.

Pathways

- Network Systems
- Information Support & Services
- Web and Digital Communications
- Programming and Software Development

Interests and Abilities

Activities That Describe What I Like to Do:

- Work with computers.
- Reason clearly and logically to solve complex problems.
- Use machines, techniques, and processes.
- Read technical materials and diagrams and solve technical problems.
- Adapt to change.
- Play video games and figure out how they work.
- Concentrate for long periods without being distracted.

Personal Qualities That Describe Me:

- Logical/analytical thinker
- See details in the big picture
- Persistent
- Good concentration skills
- Precise and accurate

School Subjects That I Like:

- Math
- Science
- Computer Tech/ Applications
- Communications
- Graphic Design

Recommended Germantown High School Courses and Electives

- Keyboarding/Typing
- Microsoft Word & Powerpoint
- AP Seminar
- Microsoft Office XP
- Website Design
- AP Research
- Digital Electronics
- AP Computer Science Principles
- Youth Apprenticeship
Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.

**Career Options**

**From High School**  
(on-the-job training and/or minimal experience)
- Correctional Officer  
- Crossing Guard  
- Security Guard  
- Parking Enforcement Officer  
- Dispatcher

**Careers with Certification/Associate Degree**  
(community college, technical college, apprenticeship, experience)
- Bailiff  
- Legal Secretary  
- Court Reporter  
- Paralegal Assistant  
- Emergency Medical Technician  
- Park Ranger  
- Police Officer  
- Private Detective

**Bachelor’s, Pre-Professional or Higher Degree**  
(colleges/universities)
- Adjudicator  
- Judicial Law Clerk  
- Arbitrator  
- Lawyer  
- FBI Agent  
- Park Ranger  
- Forensic Science Technician  
- Probation and Parole Officer  
- Judge

**Pathways**
- Correction Services  
- Emergency and Fire Management Services  
- Security and Protective Services  
- Law Enforcement Services  
- Legal Services

**Interests and Abilities**

**Activities That Describe What I Like to Do:**
- Work under pressure or in the face of danger.
- Make decisions based on my own observations.
- Interact with other people.
- Be in positions of authority.
- Respect rules and regulations.
- Debate and win arguments.
- Observe and analyze people’s behavior.

**Personal Qualities That Describe Me:**
- Adventurous
- Dependable
- Community-minded
- Decisive
- Optimistic

**School Subjects That I Like:**
- Language Arts
- Psychology/Sociology
- Government/History
- Law Enforcement
- First Aid/First Responder

**Recommended Germantown High School Courses and Electives**

<table>
<thead>
<tr>
<th>Argumentation and Persuasion</th>
<th>AP Psychology</th>
<th>Political Science</th>
<th>Social Problems</th>
</tr>
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<tbody>
<tr>
<td>AP American History</td>
<td>Psychology</td>
<td>Law and You</td>
<td>Sociology</td>
</tr>
<tr>
<td>AP European History</td>
<td>AP Seminar</td>
<td>AP Research</td>
<td>AP Human Geography</td>
</tr>
</tbody>
</table>
Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.

**Pathways**
- Production
- Manufacturing Production Process Development
- Maintenance, Installation, and Repair
- Quality Assurance
- Logistics and Inventory Control
- Health, Safety, and Environmental Assurance

**Interests and Abilities**

Activities That Describe What I Like to Do:
- Work with my hands and learn that way.
- Put things together.
- Do routine, organized and accurate work.
- Perform activities that produce tangible results.
- Apply math to work out solutions.
- Use hand and power tools and operate equipment/machinery.
- Visualize objects in three dimensions from flat drawings.

Personal Qualities That Describe Me:
- Practical
- Observant
- Physically active
- Step-by-step thinker
- Coordinated

School Subjects That I Like:
- Math – Geometry
- Chemistry
- Trade and Industry courses
- Physics
- Language Arts

---

**Recommended Germantown High School Courses and Electives**

- Intro to Engineering Design
- Principles of Engineering Manufacturing
- Automated Machining
- AP Seminar
- Machine Tool Technology 1
- Machine Tool Technology 2
- Advanced Machine Tool Technology
- Digital Electronics
- AP Research
- Metal Fabrication
- Basic Welding
- Advanced Welding
- Robotics
- Intro to Computer Aided Design
- 21st Century Work Skills Co-Op
- AP Computer Science Principles
- Youth Apprenticeship

---

**Career Options**

**From High School**
(on-the-job training and/or minimal experience)

- Apparel & Home Furnishings Order Filler
- Dyer Clerk
- Engraver Production Assembler
- Hand Worker Tire Builder
- Oil Well Driller

**Careers with Certification/Associate Degree**
(community college, technical college, apprenticeship, experience)

- Apparel Pattern Maker
- Locksmith
- Combination Welder Musical Instrument Repairer
- Computer Technician Tool and Die Maker
- Quality Control Technician Electrical Appliance Servicer
- Engineering Manager Electric Motor Technician

**Bachelor’s, Pre-Professional or Higher Degree**
(colleges/universities)

- Communications Operations Manager
- Industrial Engineer
- Electrical Engineer Mechanical Engineer
- Environmental Engineer Occupational Health & Safety
- Engineering Manager Inspector
- Production Supervisor

---

**Manufacturing**
Planning, managing, and performing marketing activities to reach organizational objectives.

**Pathways**
- Marketing Management
- Professional Sales
- Merchandising
- Marketing Communications
- Marketing Research

**Interests and Abilities**

**Activities That Describe What I Like to Do:**
- Shop and go to the mall.
- Be in charge.
- Make displays and promote ideas.
- Give presentations and enjoy public speaking.
- Persuade people to buy products or to participate in activities.
- Communicate my ideas to other people.
- Take advantage of opportunities to make extra money.

**Personal Qualities That Describe Me:**
- Enthusiastic
- Competitive
- Creative
- Self-motivated
- Persuasive

**School Subjects That I Like:**
- Language Arts
- Math
- Business Education/Marketing
- Economics
- Computer Applications

---

**Career Options**

**From High School**
(on-the-job training and/or minimal experience)

- Antique/Collectible Dealer
- News Vendor
- Cashier
- Street Vendor
- Classified Ad Clerk
- Telemarketer
- Counter Clerk
- Wedding Planner
- Customer Service Representative

**Careers with Certification/Associate Degree**
(community college, technical college, apprenticeship, experience)

- Advertising Layout Designer
- Auto Salesperson
- Advertising Sales Representative
- Buyer
- Auctioneer
- Purchasing Manager
- Real Estate Agent

**Bachelor’s, Pre-Professional or Higher Degree**
(colleges/universities)

- Advertising Account Executive
- Public Relations Manager
- Advertising Manager
- Purchasing Agent
- Business Agent
- Research Analyst
- Marketing Manager

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**Recommended Germantown High School Courses and Electives**

<table>
<thead>
<tr>
<th>Marketing Principles</th>
<th>21st Century Work Skills Co-Op</th>
<th>Psychology</th>
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<tr>
<td>International Business &amp; Marketing</td>
<td>Entrepreneurship</td>
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<td>Sports &amp; Entertainment Marketing</td>
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<tr>
<td>Economics</td>
<td>AP Seminar</td>
<td>AP Research</td>
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</tr>
</tbody>
</table>
Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering), including laboratory and testing services, and research and development services.

**Pathways**
- Engineering and Technology
- Science and Mathematics

**Interests and Abilities**

**Activities That Describe What I Like to Do:**
- Interpret formulas.
- Find the answers to questions.
- Work in a laboratory.
- Figure out how things work and investigate new things.
- Explore new technology.
- Experiment to find the best way to do something.
- Pay attention to details and help things be precise.

**Personal Qualities That Describe Me:**
- Detail oriented
- Inquisitive
- Objective
- Methodical
- Mechanically inclined

**School Subjects That I Like:**
- Math
- Science
- Drafting/Computer Aided Drafting
- Electronics/Computer Networking
- Technical Classes/Technology Education

**Recommended Germantown High School Courses and Electives**
- Advanced Algebra
- Pre-Calculus
- AP Statistics
- AP Calculus AB
- AP Calculus BC
- Calculus III
- AP Chemistry
- AP Computer Science Principles
- Youth Apprenticeship
- Environmental Sustainability
- AP Biology
- AP Physics
- Physics
- Environmental Science
- Earth and Space Science
- Calculus III
- AP Human Geography
- Principles of Engineering
- Intro to Engineering Design
- Introduction to Computer Aided Design
- Civil Engineering and Architecture
- Digital Electronics
- Robotics
- AP Seminar
- AP Research

**Career Options**

**From High School**
(on-the-job training and/or minimal experience)
- Statistical Clerk

**Careers with Certification/Associate Degree**
(community college, technical college, apprenticeship, experience)
- Biological Technician
- Environmental Technician
- Chemical Technician
- Mathematical Technician
- Civil Engineering Technician

**Bachelor’s, Pre-Professional or Higher Degree**
(colleges/universities)
- Aerospace Engineer
- Industrial Engineer
- Anthropologist
- Mathematician
- Archaeologist
- Mechanical Engineer
- Astronomer
- Metallurgist
- Biomedical Engineer
- Mining Engineer
- Chemical Engineer
- Nuclear Engineer
- Civil Engineer
- Physicist
- Computer Engineer
- Solar Engineer
- Electrical Engineer
- Statistician
- Geologist
- Geologist

**Science, Technology, Engineering & Mathematics**

Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering), including laboratory and testing services, and research and development services.
Career Options

From High School (on-the-job training and/or minimal experience)
- Bus Driver
- Reservation and Ticket Clerk
- Deckhand
- Service Station Attendant
- Delivery Driver
- Shipping and Receiving
- Highway Maintenance Worker
- Traffic Clerk

Careers with Certification/Associate Degree (community college, technical college, apprenticeship, experience)
- Aircraft Mechanic
- Motorcycle Technician
- Auto Body Technician
- Railroad Conductor
- Automobile Painter
- Security Consultant
- Cartographic Technician
- Travel Agent
- Diesel Technician
- Flight Attendant

Bachelor’s, Pre-Professional or Higher Degree (colleges/universities)
- Airline Pilot
- Mechanical Engineer
- Air Traffic Controller
- Mining Manager
- Astronaut
- Public Health Sanitarian
- Environmentalist
- Travel Agency Manager

Transportation, Distribution & Logistics
Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment, and facility maintenance.

Pathways
- Facility and Mobile Equipment Maintenance
- Health, Safety, and Environmental Management
- Logistics Planning and Management Services
- Sales and Service
- Transportation Operations
- Transportation Systems/Infrastructure Planning, Management and Regulation
- Warehouse and Distribution Center Operations

Interests and Abilities

Activities That Describe What I Like to Do:
- Travel
- See well and have quick reflexes
- Solve mechanical problems
- Design efficient processes
- Anticipate needs and prepare to meet them
- Drive or ride
- Move things from one place to another

Personal Qualities That Describe Me:
- Realistic
- Mechanical
- Coordinated
- Observant
- Planner

School Subjects That I Like:
- Math
- Trade and Industry courses
- Physical Sciences
- Economics
- Foreign Language

Recommended Germantown High School Courses and Electives

| Consumer Auto Robotics | Energy, Power & Transportation AP Seminar | Automotive Technology AP Research | Automotive Systems & Diagnostics Youth Apprenticeship |

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ART

EXPLORATORY ART A & B A101/A102
Semester - ½ Credit - 9, 10, 11, 12

In both courses, students will utilize familiar art materials as well as experiment with new ideas and techniques. Art principles (unity, balance, repetition, scale, dominance, and contrast) will form a basis for good design and evaluation. Art history and current art events will provide insights into our art heritage.

Exploratory Art A - (offered 1st semester) Studio experiences include design, drawing, printmaking, acrylic painting, pen and ink, portrait, perspective, ceramic sculpture, and mixed media.

Exploratory Art B - (offered 2nd semester) Studio experiences include design, drawing, acrylic painting, hand-built pottery, figure studies, scrafitto, art metal, textiles, sculpture/construction, and architecture.

Fees: $20.00 (Students may also be required to bring supplies)

Prerequisite: None

ACCELERATED EXPLORATORY ART A105
Semester - ½ Credit - 9

This course offers a comprehensive curriculum at advanced levels in drawing, sculpture, painting, printmaking, ceramics, and design. Students will be challenged well above regular Exploratory Art students, having to complete a higher, more demanding level of work in all areas. Students will increase their skills in problem solving, time management, artistry, and craftsmanship. This course is only offered 1st semester.

Fees: $20.00 (Students may be required to bring some supplies)

Prerequisite: Previous placement in KMS GT Art or permission of instructor (portfolio assessment)

CERAMICS A206
Semester - ½ Credit – 9, 10, 11, 12

This is an introductory course designed to explore techniques to create three-dimensional art, specifically pottery. The class has four separate 4-week sections of hand building with clay, using various types of molds and wheel throwing. You will explore surface applications, including textural applications and a variety of surface finishes like glazing, staining, painting, sgraffito, etc. You will become familiar with vocabulary, tools, mediums, and techniques within each project. Through sketch assignments and project building students will increase their awareness of volume, form, texture, and function.

Fee: $20.00

Prerequisite: None; however, Exploratory Art, Drawing or Painting is recommended

SCULPTURE A207
Semester - ½ Credit – 9, 10, 11, 12

This is an introductory course designed to explore techniques to create three-dimensional art using a variety of different materials like paper, clay, plaster, glass, cement. The class has six separate 3-week sections of additive, reductive, mold making and casting. You will acquire knowledge of sculptural vocabulary, tools, mediums, and techniques within each project. Through sketch assignments and project building students will increase their awareness of volume, form, texture, and function. Awareness of artistic possibilities will increase with experimentation of alternative materials.

Fee: $20.00

Prerequisite: None; however Exploratory Art, Drawing or Painting is recommended
### ART

#### DRAWING  
**A210**
Semester - ½ Credit – 9, 10, 11, 12

The aim of this course is to increase interest and improve skills in drawing. The student will be engaged in an exploration of various media, including charcoal, pencil, colored pencil, pen and ink, pastels, and oil pastels. A variety of drawing approaches and techniques will be explored such as contour line, scribble, gesture, and creating volume with shading. Emphasis will be placed on composition, creativity, and self-expression with encouragement for students to develop a repertoire of personal artistic visual marks while working in class and on their own. Students will draw from direct observation and visual reference materials as well as from their imagination. Master artists’ works will be studied for style and technique.

**Fees:** $20.00 (Students may be required to bring some supplies)

**Prerequisite:** None; however, Exploratory Art (A, B, or Accelerated) is recommended

#### METALS  
**A215**
Semester - ½ Credit – 9, 10, 11, 12

This course allows students to challenge themselves as they express their design ideas in metal. Objects of adornment, functional pieces, and aesthetic items will be the focus of explorations. Students will learn techniques such as bending, twisting, forging, piercing, sawing, filing, sanding, polishing, cold connections, oxidizing and various surface manipulations.

Craftsmanship with regard to design, execution and presentation will be stressed. This is not necessarily a jewelry class but rather a metal forming and finishing class with practical applications.

**Fees:** $20.00 (Students may also be required to bring supplies)

**Prerequisite:** None; however, Exploratory Art, Drawing, Ceramics, or Sculpture (or Ceramics/Sculpture if taken prior to 2019-2020) are recommended

#### PHOTOGRAPHY  
**A220**
Semester - ½ Credit – 9, 10, 11, 12

This course establishes a foundation in the use of equipment and the development of skills used in digital photography. Students will become familiar with camera and lens types and their functions. Digital skills include use of Photoshop to manipulate images. The study of compositional rules for photography will be stressed. Class format includes lecture, discussion, textbook and written assignments, weekly photoshoot assignments, presentation techniques and critiques.

**Fees:** $30.00

**Prerequisite:** Students should have a digital camera (can be on their phone) with technology to digitally turn in their photoshoot assignment digitally as well

#### GRAPHIC DESIGN  
**A225**
Semester - ½ Credit – 9, 10, 11, 12

This course introduces students to the commercial aspects of art and the concept of global, universal visual communication. Students will be thoroughly engaged in the study and execution of design problems in advertising and design, media and marketing, and product development. Current methods and techniques used in the creation of commercial art will be introduced, including computer lab experiences. Problem solving skills will be utilized in the execution of commercial designs such as type layout, font design, illustration, logos, letterhead, branding, display work, formal presentation, and packaging design.

**Fees:** $20.00 (Students may be required to bring some supplies)

**Prerequisite:** None; however, Exploratory Art (A, B, or Accelerated) or Drawing are recommended. Students will also benefit from having taken Painting, Metals, Ceramics or Sculpture (or Ceramics/Sculpture if taken prior to 2019-2020)
ART

PAINTING  A230
Semester - ½ Credit – 9, 10, 11, 12

This course is designed for those students who have a particular interest in and an aptitude for painting. Students will explore watercolor techniques, acrylic painting techniques and oil paints. Students will be introduced to significant art movements and painters through historical perspective. Students will explore painting styles, composition, and a variety of subject matter. Students will learn to prepare their own painting surfaces including boards, canvas, and paper.

Fees: $20.00 (Students need to purchase a #1 or smaller script liner paintbrush. Additional supplies may also be needed.)

Prerequisite: None; however, Exploratory Art (A or B or Accelerated) or Drawing are recommended

PRINTMAKING  A235
Semester - ½ Credit – 9, 10, 11, 12

Printmaking is offered as an introduction to various types of printmaking processes used in creating multiples of an original artwork. Students draw, design, and paint on a printing plate. Then ink is applied and multiple prints are produced on paper and fabric. In this course, the student will experience traditional print forms such as wood cut, linoleum cut, silk screen printing on t-shirts (serigraphy), stenciling, monoprints, and monotypes. The history of graphics will be introduced, and the art work of established printmakers will be studied for their techniques and styles.

Fees: $20.00 (Students may be required to bring some supplies)

Prerequisite: None; however, Drawing is recommended

ADVANCED CERAMICS  A306
Semester - ½ Credit - 10, 11, 12

This is an advanced course designed to build upon techniques learned in Ceramics. The class has four separate 4-week sections of hand building with clay, using molds and wheel throwing. You will expand your knowledge of ceramic surface applications, vocabulary, tools, mediums, and techniques within each project. You will be able to develop your own visual voice as you concentrate on each technique in a more in-depth way. You will finish this class with a more complete understanding of volume, form, texture, and function and how you can use this knowledge to communicate ideas.

Fee: $20.00

Prerequisite: “B” or better in Ceramics (or Ceramics/Sculpture if taken prior to 2019-2020)

ADVANCED SCULPTURE  A307
Semester - ½ Credit - 10, 11, 12

This is an advanced course designed to build upon techniques learned in Sculpture. The class has six separate 3-week sections of additive, reductive, mold making and casting. You will expand your knowledge of sculptural vocabulary, tools, mediums, and techniques within each project. You will be able to develop your own visual voice as you concentrate on each technique in a more in-depth way. Through sketch assignments and project building students will attain a more complete awareness of volume, form, texture, function and the artistic possibilities help within alternative materials.

Fee: $20.00

Prerequisite: “B” or better in Sculpture (or Ceramics/Sculpture if taken prior to 2019-2020)
ART

**ADVANCED DRAWING**  A310
Semester - ½ Credit - 10, 11, 12

This course will build upon skills and techniques explored in Drawing (see above). Students will study the drawings of various artists for style and technique as they continue to develop their own personal style. Students will explore various art media and will be challenged to create projects based on their own original photographs and personal observations. Students will focus on the elements and principles of design using mixed media. Weekly sketch assignments will be assigned.

**Fees**: $20.00 (Students may be required to bring some supplies)

**Prerequisite**: “B” or better in Drawing

**ADVANCED PHOTOGRAPHY**  A320
Semester - ½ Credit - 10, 11, 12

This course builds upon concepts and skills learned in Photography. Students will utilize various camera features to optimize their creative visions. Students will continue to shoot in series and print their own photographic images. Lecture, discussion, reading, written assignments, and reports are a part of the class format. Advanced digital photography and Photoshop will be explored. Students must be able to work well independently in and out of class. It is recommended they have a 35mm SLR digital based camera.

**Fees**: $30.00

**Prerequisite**: “B” or better in Photography.

Students should have a digital camera (can be on their phone, but a 35mm SLR digital camera is recommended) with technology to digitally turn in their photoshoot assignment digitally as well.

**ADVANCED PAINTING**  A330
Semester - ½ Credit - 10, 11, 12

This course allows students to build upon their knowledge of composition, technique, and style based on their foundations in Painting. Students will expand their storehouse of images and techniques by looking to established painters for inspiration. Students will use their own original photography and personal observations to complete paintings. They will further explore their individual styles by learning to express their personal visions. Students will continue to prepare their own painting surfaces including canvas supports, wood, paper and furniture. Media utilized will be acrylics, oils, and watercolor.

**Fees**: $20.00 (Students may also be required to bring supplies)

**Prerequisite**: “B” or better in Painting
ART

Suggested Course Sequence for AP Studio Art

2-D Design

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<thead>
<tr>
<th>Freshman Year</th>
<th>1st Semester</th>
<th>2nd Semester</th>
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</thead>
<tbody>
<tr>
<td>Sophomore Year</td>
<td>Accelerated Exploratory Art</td>
<td>Drawing</td>
</tr>
<tr>
<td>Junior Year</td>
<td>Photography &amp; Painting or Graphic Design</td>
<td>AP Studio Art I</td>
</tr>
<tr>
<td>Senior Year</td>
<td>AP Studio Art II</td>
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</table>

Drawing

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<td>Drawing</td>
</tr>
<tr>
<td>Junior Year</td>
<td>Photography and Painting</td>
<td>Advanced Drawing</td>
</tr>
<tr>
<td>Senior Year</td>
<td>AP Studio Art I &amp; Printmaking</td>
<td>AP Studio Art I</td>
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<td>AP Studio Art II</td>
<td>AP Studio Art II</td>
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3-D Design

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<th>2nd Semester</th>
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<tbody>
<tr>
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<td>Accelerated Exploratory Art</td>
<td>Drawing</td>
</tr>
<tr>
<td>Junior Year</td>
<td>Photography or Ceramics or Sculpture</td>
<td>AP Studio Art I</td>
</tr>
<tr>
<td>Senior Year</td>
<td>AP Studio Art I &amp; Metals</td>
<td>AP Studio Art II</td>
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<td>AP Studio Art II</td>
<td>AP Studio Art II</td>
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</table>

ADVANCED PLACEMENT

STUDIO ART I

Year – 1 Credit – 11, 12

This course is divided into three sections: 2-D Design, Drawing, and 3-D Design. With the help of your instructor, you choose one section as your area of focus.

The successful student in AP Studio Art I 2-D Design, Drawing, or 3-D Design will complete the Breadth section of the Advanced Placement portfolio with 12 works of high quality OR the Breadth, Concentration, and Quality sections of a chosen portfolio in one year. The student will be experienced in using formal and technical/expressive means available to visual artists; be knowledgeable of media craftsmanship in a wide variety of techniques; demonstrate inventiveness, commitment, and expressive content; be able to self-critique and peer-critique in both written and oral forms; use peer/teacher feedback; and have perception of environment and cultural awareness.

Summer projects and assignments must be completed by the 1st day of school.

Fees: $100.00 - In AP Studio Art I, you will receive $100 worth of art materials to keep, including various mixed media papers, pencils, colored pencils, erasers, all types of paint, paint brushes, printing inks, printing plates, plaster, illustration boards, markers, pens, oil pastels, dry pastels, and paint mediums.. If you drop the course, your course fee will not be reimbursed. Students must also purchase a graphite pencil, art box, smock, 1 GB flash drive, and a folder.

Prerequisite: You must complete the following courses earning a B- or higher and have instructor approval in order to be accepted into AP Studio Art:

2-D Design: Accelerated Exploratory Art, Drawing, Photography, and Graphic Design

Drawing: Accelerated Exploratory Art or Exploratory Art, Drawing, Advanced Drawing, Photography, Printmaking, and Painting

3-D Design: Accelerated Exploratory Art, Drawing, Photography, and Ceramics & Sculpture
ADVANCED PLACEMENT

STUDIO ART II
Year – 1 Credit – 12

This course is divided into three sections: 2-D Design, Drawing, and 3-D Design. You continue your area of focus from AP Studio Art I.

The successful student in AP Studio Art II 2-D Design, Drawing, and 3-D Design will complete the Concentration and Quality section of the Advanced Placement portfolio with 17 works of high quality OR the Breadth, Concentration, and Quality sections of a different portfolio. (For example, a student can complete the Drawing Portfolio during their junior year in AP Studio Art I, and then the 2-D Design portfolio during their senior year in AP Studio Art II.) The student will be experienced in using formal and technical/expressive means available to visual artists; acquire an in-depth knowledge of a specific media and high craftsmanship in a chosen technique; and demonstrate inventiveness, commitment, and expressive content. The student will also be able to self-critique in both written and oral forms, use peer/teacher feedback, and have perception of environment and cultural awareness.

Summer projects and assignments must be completed by the 1st day of school.

Fees: $100.00 – This is a consumable class. The fee is used towards various mixed media papers, pencils, colored pencils, erasers, all types of paint, paint brushes, printing inks, printing plates, plaster, illustration boards, markers, pens, oil pastels, dry pastels, and paint mediums. If you drop the course, your course fee will not be reimbursed. Students must also purchase a graphite pencil, art box, smock, 1 GB flash drive, and a folder.

Prerequisite: AP Studio Art I

YOUTH APPRENTICESHIP 1/2
Year – 1 Credit – 11, 12

There are potential Youth Apprenticeship opportunities across all career pathways. Students interested in meaningful work experience that will help them determine their post-high school education/training should speak with their school counselor. Further information on Youth Apprenticeships can also be found on pages 14-15 of this course guide book or online at https://dwd.wisconsin.gov/youthapprenticeship/. Students who sign up for Youth Apprenticeship will be contacted in January by the School Counseling Office to determine proper placement.
### INTRODUCTION TO BUSINESS/ CAREER EXPLORATION  B105

Semester - ½ Credit - 9, 10

Have you ever wondered what it would be like to start your own business? Have you started to think about what you want to be when you are older? In this course, we will explore the world of business, how a business operates, and basic economics. Throughout the semester, you will even create your own business plan. In addition, using the Wisconsin Career Pathways model, students will research careers associated with their interests. Students will also learn interview skills, resume-building, networking, and post-graduation options. This is not only a great course for those who are interested in a career in business, but for all of our students at Germantown!

**Fees:** Cost of working materials  
**Prerequisite:** None

### ENTREPRENEURSHIP  B205

Semester - ½ Credit - 10, 11, 12

Entrepreneurship is a business elective which will explore the different areas needed to succeed in starting your own business in our free enterprise system. Each student will simulate a business start up of their choice by exploring these units: personal considerations and qualifications, marketing research, forecasting sales, site selection, financing, business layout, legal considerations, organizational methods, advertising, publicity, purchasing, bookkeeping, selling, insurance, and personnel management. Upon completion of this course, students will have a realistic concept of the personal and technical knowledge needed to start their own business.

**Fees:** None  
**Prerequisite:** None

### INTERNATIONAL BUSINESS & MARKETING  B210

Semester - ½ Credit - 10, 11, 12

In the fast-paced and ever-changing world we live in, it is necessary for all of us to discover the complex connections and relationships that exist between continents, nations, cultures, and individuals. This one-semester course is designed to provide students with an appreciation for living and conducting business in our global economy. The student will study other global economics, cultural influences, marketing overseas, importing, exporting, international travel, trade relations, international finance, world trade agreements, and setting up a global business. Global case studies will be examined.

**Fees:** None  
**Prerequisite:** None

### SPORTS & ENTERTAINMENT MARKETING  B215

Semester – ½ Credit – 10, 11, 12

Students will discover the world of sports and entertainment marketing and the use of this marketing to promote sports and non-sports businesses. This introductory marketing course will help students develop a thorough understanding of marketing concepts and theories that apply to sports (schools, collegiate, amateur, and professional) and entertainment (music, theater, travel, annual events, and restaurants). Some areas this course will cover include basic marketing, target marketing and segmentation, sponsorship, event marketing, sales and promotions. Students taking Sports & Entertainment Marketing may choose to participate in DECA (student marketing leadership organization). DECA related activities and curriculum can be used as an approved part of all marketing classes.

**Fees:** None  
**Prerequisite:** None
<table>
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<tr>
<th>ACCOUNTING</th>
<th>MARKETING PRINCIPLES</th>
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<tbody>
<tr>
<td><strong>B225/226</strong></td>
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<tr>
<td>Year - 1 Credit - 10, 11, 12</td>
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Accounting is designed for students interested in accounting or any other business-related profession as a career. Those students wanting exposure for personal use will benefit as well. The course will include the accounting cycle, special journals and ledgers, income tax, end of fiscal period accounting work, and special accounting procedures. This course will include an integration of computer activities for both general ledger and spreadsheet. Students who intend to continue their education in the business field should be aware that every business degree requires (at a minimum) two accounting courses at the college level.

**Fees:** $50.00

**Prerequisite:** None

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<td><strong>B231/232</strong></td>
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Marketing is designed for students who want to explore the exciting areas of Marketing, Business, and Management. By exploring this course, you will have a better understanding of how our free enterprise system works, what it takes to be a successful employee, manager, or owner of a business. The units covered throughout the year are: Free Enterprise System, Basic Marketing Concepts, The World of Marketing, the Global Marketplace, Online Marketing, Investing, the Stock Market, Sales, Communication Skills, Buying and Distribution, Pricing, Research, Promotion, and Advertising. Any student thinking about a career in any business related field is encouraged to take this class.

DECA (optional) is another important part of Marketing for students who wish to participate in an extracurricular activity. In DECA, students enhance their education by going on field trips, work on community projects, and compete against other students in marketing competitions. In the past twenty years, Germantown has sent over 130 students to national competition. In DECA, students research careers in business, learn how to give business presentations and how to solve business case problems. All students are encouraged to compete in DECA.

**Fees:** DECA membership is encouraged

**Prerequisite:** None
PERSONAL FINANCIAL LITERACY  B321
Semester – ½ Credit – 10, 11, 12
We all need to develop the discipline, understanding, and skills needed to manage our personal finances. This course is designed to help students explore topics including budgeting, careers and income, exploring financial institutions, financial aid, insurance planning, investing, risk management, and using credit wisely. Students will begin to develop their own financial plan, participate in a stock market simulation, learn the importance of "paying yourself first" and the time value of money. Additionally, money management tools will be examined as students learn how to manage their personal finances.

Personal Financial Literacy is a graduation requirement at GHS. It is recommended that students take the course as a junior. However, some sophomores may be allowed to take it with counselor permission based on scheduling needs for their Junior and Senior year.

Fees: None
Prerequisite: None

ADVANCED ACCOUNTING  B325/326
Year - 1 Credit - 11, 12
Advanced Accounting is designed for students interested in pursuing accounting at the post high school level or for job entry positions. The student with an interest and ability in the area of accounting should take this course and be prepared for in-depth work in the accounting area. The course will include managerial accounting, cost accounting, financial accounting, partnership accounting, corporation accounting, automated accounting, and interpretation of financial information.

Fees: $50.00
Prerequisite: Accounting

21ST CENTURY WORK SKILLS (Class)  B425/426
Year - 1 Credit - 12
21st Century Work Skills is a one year course for students wishing to advance their knowledge of marketing and to learn about business management. Students learn about advertising and promotion, new trends in marketing, business planning, personnel, human resource management and management theory and practice. Students may also elect, for an additional credit, to participate in Marketing Management Co-Op Work by taking this course. DECA participation is also an option for students taking this course.

Fees: None
Prerequisite: Marketing Principles or consent of teacher

21ST CENTURY WORK SKILLS (Work)  B427/428
Year - 1 Credit - 12
21st Century Work Skills Co-Op (Work) is a cooperative education work experience course open to seniors who are interested in learning about management, business, and marketing. This is developed in two phases. Phase I is the classroom setting. All students taking 21st Century Work Skills Co-Op (Work) must also take 21st Century Work Skills (Class). Phase II is the work experience phase, or on-the-job training. Students are placed in an area business to gain knowledge and skills in business unable to be gained in a classroom setting. This is a cooperative program with students, school and the business community. The student provides his/her own transportation to and from the training station. Students are committed to this program for the entire school year.

Fees: None
Prerequisite: Marketing Principles or consent of teacher
YOUTH APPRENTICESHIP 1/2
Year – 1 Credit – 11, 12
There are potential Youth Apprenticeship opportunities across all career pathways. Students interested in meaningful work experience that will help them determine their post-high school education/training should speak with their school counselor. Further information on Youth Apprenticeships can also be found on pages 14-15 of this course guide book or online at https://dwd.wisconsin.gov/youthapprenticeship/. Students who sign up for Youth Apprenticeship will be contacted in January by the School Counseling Office to determine proper placement.

COMPUTER COURSES

KEYBOARDING/TYPING C101
Semester - ½ Credit - 9, 10, 11, 12
This course is designed for all students to learn and to enhance their keyboarding skills using the “touch key method.” Students who have some experience will be challenged in this one semester course. Emphasis is placed on the use of proper technique to develop proficient keyboarding skills, after which students will produce properly formatted letters, memos, e-mails, tables, outlines, and reports. Students will develop their proofreading and composition skills, practice basic and intermediate word processing concepts, and develop an understanding of basic computer terminology. This course provides the necessary background for students to produce correctly formatted documents that are required for success in college and for effective communication in the workplace.

Fees: None
Prerequisite: None

COMPUTER & DESKTOP APPLICATIONS C105
Semester - ½ Credit – 9, 10, 11, 12
Over the past two decades, the computer has evolved into a tool that is essential to the success of college students, business executives, and support staff. Discover tips and shortcuts to maximize your time at the computer while creating professional documents for use in school, at home, and in the workplace. Work in a real-world PC network environment using Microsoft Office applications. Students will import and export files, create PowerPoint presentations, discover Excel spreadsheet capabilities, and learn design layout techniques of text and graphics for several projects using desktop publishing features of Word. Students will apply their skills through completion of a workplace simulation. Additionally, students will gain exposure to Google applications, such as Docs, Sheets, and Slides. Students who want to expand their computer skills by using various applications should take this course.

Fees: Cost of working materials
Prerequisites: Keyboarding or consent of Instructor
MICROSOFT OFFICE - WORD & POWERPOINT  
Semester - ½ Credit - 10, 11, 12

This course will help students use technology as an effective communication tool for college, everyday use, or for the workplace. Students will receive instruction in Microsoft Word and Microsoft PowerPoint. Students will learn many of Word’s functions to produce proper document layout including entering, editing, rearranging, sorting, storing, retrieving, proper displaying and printing text. Microsoft PowerPoint has become very popular presentation software. Using PowerPoint, students will create sequences of words and clipart, sounds, graphics, and animation that tell a story or help support a speech or public presentation of information. During the semester, students will also work with comparable Google applications using Google Drive. In addition, students will use Windows to gain hands-on experience in windows accessories, file management, transferring information and running multiple applications.

Fees: None

Prerequisite: Keyboarding recommended

MICROSOFT OFFICE – ACCESS & EXCEL  
Semester - ½ Credit - 10, 11, 12

This course is designed to further expand student knowledge of essential computer skills. The use of the computer to create and maintain data has exploded. This course provides hands-on learning activities for Excel and Access. Excel is a spreadsheet program used by the majority of businesses in the U.S. to develop and analyze financial material. Many use Excel to maintain their own personal financial information as well. With Excel, students will enter and edit data in spreadsheets, create formulas, format data, make charts, and print worksheets and charts. Access is a computer database program. Access is used to enter, maintain, and retrieve related data in a structure known as a database. Students will learn how to set up a new database, create and save a table, sort categories, and develop, preview and navigate a report. In addition to learning Excel and Access, students will use Windows to gain hands-on experience in Windows accessories, file management, transferring information and running multiple applications.

Fees: None

Prerequisite: None

WEB SITE DESIGN AND MANAGEMENT  
Semester - ½ Credit - 11, 12

Technology is constantly impacting how students need to communicate and effectively work in our society. In this one semester course, students will learn how to develop effective Web sites by using HTML5 (the backbone of Web sites), CSS, and Adobe Dreamweaver Web design software. Students will create individual Web pages as well as more comprehensive Web sites using effective design strategies and techniques. Students will learn how companies and organizations best utilize Web sites to convey information about their services and products.

Fees: None

Prerequisite: Any Microsoft Office course work is strongly recommended
YOUTH APPRENTICESHIP 1/2
Year – 1 Credit – 11, 12

There are potential Youth Apprenticeship opportunities across all career pathways. Students interested in meaningful work experience that will help them determine their post-high school education/training should speak with their school counselor. Further information on Youth Apprenticeships can also be found on pages 14-15 of this course guide book or online at https://dwd.wisconsin.gov/youthapprenticeship/. Students who sign up for Youth Apprenticeship will be contacted in January by the School Counseling Office to determine proper placement.
AP Capstone® is a diploma program from the College Board that helps students stand out in the postsecondary admission process by developing the critical skills needed to succeed in postsecondary education/training and in life. The two courses that make up the AP Capstone Program, AP Seminar and AP Research, allow students to immerse themselves in topics that matter to them while developing the analytic, research, problem-solving, and communication skills that postsecondary institutions seek in their applicants. This challenging program helps students deepen their passion for learning, gives them greater confidence in their academic skills, and provides a broader perspective on their world.

The two AP Capstone classes, with their associated performance tasks, assessments, and application of research methodology, require students to:

- Analyze topics through multiple lenses to construct meaning or gain understanding.
- Plan and conduct a study or investigation.
- Propose solutions to real-world problems.
- Plan and produce communication in various forms.
- Collaborate to solve a problem.
- Integrate, synthesize, and make cross-curricular connections.

In order to receive the AP Capstone Diploma™, students must earn a 3 or higher on the AP Seminar and AP Research Exams and on four (4) additional AP Exams of their choosing. Alternatively, the AP Capstone Certificate™ is awarded for scores of 3 or higher on the AP Seminar and AP Research Exams only. Most colleges typically award general elective credits for successful scores on the AP Seminar and AP Research Exams.

**ADVANCED PLACEMENT**

**ENGLISH SEMINAR**

Year – 1 Credit – 10, 11, 12

AP Seminar is the foundational course in the AP Capstone Program. Students develop and strengthen analytic and inquiry skills by exploring relevant issues chosen by the student. Students learn to consider an issue from multiple perspectives, evaluate the strength of an argument, and make logical, fact-based decisions. Students will question, research, explore, pose solutions, develop arguments, collaborate, and communicate using various media.

**Assessment:** During the course, students complete a team project, an individual paper and presentation, and take a written final exam. The AP Seminar Exam score is based on all three components and is reported on the standard 1–5 AP scoring scale.

**Students will receive an English credit upon successful completion of this course.**

**Fees:** AP Seminar exam fee ($142.00 in 2019)
AP CAPSTONE PROGRAM

Prerequisite: 10th, 11th or 12th grade standing and a minimum semester grade of a B- in all prior honors/AP courses. Students who do not meet this requirement can still apply to enroll in the course through the department approval process. Students are highly recommended to also take A.P. Language and Composition as both final AP tests are very similar in style. Students are not required to take AP Research the following year.

ADVANCED PLACEMENT RESEARCH CP401/402
Year – 1 Credit – 11, 12

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research based investigation to address a research question. In the AP research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in the Process and Reflection Portfolio (PREP). The course culminates in an academic paper of approximately 4000-5000 words and a presentation with an oral defense.

Fees: AP Research exam fee ($142.00 in 2019), plus transportation costs for field trips to university level research labs

Prerequisite: AP Seminar
All freshmen students are required to take English 9 or Honors English 9. Sophomores are required to take English 10 or Honors English 10. Juniors and seniors are required to select one credit of English electives each year from the options below. All students are required to earn four credits of English to graduate.

### Junior Only Electives
- AP English: Language and Composition (1 credit)

### Senior Only Electives
- AP English: Literature & Composition (1 credit)
  - * Technical Writing and Communication (1 credit)

### Junior/Senior Electives
- Composition for College (1/2 credit)
- American Novel (1/2 credit)
- World Literature (1/2 credit)
- * Introduction to Communication (1/2 credit)

- Argumentation & Persuasion (1/2 credit)
- Comedy-Tragedy (1/2 credit)
- Critical Thinking & Writing (1/2 credit)

* Some colleges do not accept this class as a core college preparatory English unit.

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<th>Minimum Graduation Requirements</th>
<th>Technical College, 2-Year Programs, &amp; Apprenticeship</th>
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<td>English 9</td>
<td>Honors English 9</td>
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<td><strong>Sophomore Year</strong></td>
<td>English 10</td>
<td>English 10</td>
<td>Honors English 10</td>
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<td><strong>Junior Year</strong></td>
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<td>Argumentation &amp; Persuasion</td>
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<td>Critical Thinking &amp; Writing</td>
<td>World Literature</td>
<td>Critical Thinking &amp; Writing</td>
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<td><strong>Senior Year</strong></td>
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- AP English Language
- AP English Seminar
- AP English Literature
### ENGLISH

<table>
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<tr>
<th>ENGLISH 9 – ELEMENTS OF LANGUAGE ARTS</th>
<th>E101/102</th>
<th>Year - 1 Credit - 9</th>
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<tbody>
<tr>
<td>Two semesters of ninth grade English combine all the elements of language arts: reading, writing, speaking, listening, and viewing. This course introduces students to the high school experience and includes research and library skills, study skills, concepts of group discussion and public speaking, and reading and writing that students will be expected to incorporate across disciplines through their high school careers.</td>
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<td>Fees: None</td>
<td>Prerequisite: None</td>
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<th>E101H/102H</th>
<th>Year - 1 Credit – 9</th>
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<tr>
<td>Honors English 9 is a rigorous course recommended for the organized and well-adapted student who has very few absences, zero late or missing assignments, and a strong background in writing. This course requires longer, more complex readings with in-depth discussions, essays, and speeches in response to literature and research. Students who do well with this class enjoy, and want the challenge of, reading and writing about more difficult and complicated texts. Each class period demands that students come prepared with homework and discussion questions completed. In addition, students read one book of choice each quarter, design their own assessment for that novel, and rigorously study 240 ACT prep words during the year. This course helps to prepare students to take AP Language and Composition or AP Literature and Composition during their junior and/or senior year. Summer Reading is required.</td>
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<td>Fees: None</td>
<td>Prerequisite: None</td>
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<tr>
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<th>E201/202</th>
<th>Year - 1 Credit - 10</th>
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<tbody>
<tr>
<td>English 10 is a required, year-long course. Each literary genre will provide a model for in-depth study of literature and composition. Analytical writing and the basics of group discussion are emphasized. Students learn the research process by creating and presenting a research-based multimedia presentation and paper.</td>
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<td>Fees: None</td>
<td>Prerequisite: None</td>
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<tr>
<th>WRITING FOR PUBLICATION</th>
<th>E111</th>
<th>Semester - ½ Credit - 9, 10, 11, 12</th>
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<tr>
<td>Writing for Publication is a course designed to introduce students to news gathering techniques and news, feature, editorial and sports writing. Students need to consider that some after school time is involved in publication. Design work, articles and photographs created as part of the course will be published in the Warhawk Word and Warhawk, Germantown’s school newspaper and yearbook. Students can take this course all four years of high school with increasing leadership roles.</td>
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<td>Fees: None</td>
<td>Prerequisite: None</td>
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### ENGLISH

To continue in the Honors English curriculum, students are expected to maintain a minimum semester grade of B-. |
HONORS ENGLISH 10  E201H/202H
LANGUAGE AND LITERATURE
Year - 1 Credit – 10

Major writing projects are included, as well as independent research and oral presentation projects. Honors Language & Literature is a year-long course, designed to be a springboard for upper-level English courses and AP courses. Units on various literary genres involve readings from a broad range of world renowned authors. Successful students in this class enjoy complex, difficult, upper level readings and can write for extended periods of time. Each class period demands that the student come prepared with homework and discussion questions completed. Discussion is a major component of the course and requires the student be involved on a daily basis. To continue in the Honors English curriculum, students are expected to maintain a minimum semester grade of B-. Summer reading is required.

To continue in the Honors English curriculum, students are expected to maintain a minimum semester grade of B-.

Fees: None

Prerequisite: Sophomore standing and a minimum semester grade of B- in all prior honors courses. Students who did not take English Honors 9 can still tentatively enroll in the course through appropriate test scores, history of high academic achievement in the area of English Language Arts, and teacher recommendation.

ADVANCED PLACEMENT  CP301/302
ENGLISH SEMINAR
Year – 1 Credit – 10, 11, 12

AP Seminar is the foundational course in the AP Capstone Program. Students develop and strengthen analytic and inquiry skills by exploring relevant issues chosen by the student. Students learn to consider an issue from multiple perspectives, evaluate the strength of an argument, and make logical, fact-based decisions. Students will question, research, explore, pose solutions, develop arguments, collaborate, and communicate using various media.

Assessment: During the course, students complete a team project, an individual paper and presentation, and take a written final exam. The AP Seminar Exam score is based on all three components and is reported on the standard 1–5 AP scoring scale.

Students will receive an English credit upon successful completion of this course.

Fees: AP Seminar exam fee ($142.00 in 2019)

Prerequisite: 10th, 11th or 12th grade standing and a minimum semester grade of a B- in all prior honors/AP courses. Students who do not meet this requirement can still apply to enroll in the course through the department approval process. Students are highly recommended to also take A.P. Language and Composition as both final AP tests are very similar in style. Students are not required to take AP Research the following year.

THEATER CONCEPTS  E205
Semester - ½ Credit - 10, 11, 12

Theater Concepts is an introductory theatre class where students will learn the fundamentals of acting, stage craft, directing, scripting, and children’s theatre. Work on an actual production during the semester is required. Special topics may include puppetry, improvisation, and arts management.

Fees: None

Prerequisite: None
**Arguementation & Persuasion**  
E305  
Semester - ½ Credit - 11, 12  
This is a semester-long course examining how emotional techniques, credibility and logical arguments are used to persuade. Critical and creative thinking and listening will be exercised on current issues. Discussion, speeches and an introduction to debate are major activities for the course. Research and speaking skills are emphasized.  
**Fees:** None  
**Prerequisite:** None  

**Critical Thinking & Writing**  
E311  
Semester - ½ Credit - 11, 12  
This course is designed to help students develop as learners and thinkers through reading, analyzing, and discussing various selections of American and world literature, many selected by choice. Students will discover how they are a product of a cultural, literary, and artistic dialogue, which is a living conversation rather than a static concept. In order to see the complexity of their own identity, students will deconstruct various bodies of work and examine how they are developed and how they can impact others. Students will also examine literature from various perspectives to help them connect their own personal experiences to the wider world. Students will analyze a multitude of professional writing modes. They will practice and polish many modes of writing, to develop their own voice as an author.  
**Fees:** None  
**Prerequisite:** None  

**Comedy/Tragedy**  
E310  
Semester - ½ Credit - 11, 12  
This course highlights the important movements and authors in the dramatic literature of the Western theatre. Outstanding authors of Western theatre from its beginnings in classical Greece to the present are featured including Sophocles, Marlowe, Shakespeare, Moliere, Chekhov, Wilde, Ibsen, Shaw, Miller and Williams. Plays are examined for their literary value, social context and contemporary application.  
**Fees:** None  
**Prerequisite:** None  

**Introduction to Communication**  
E320  
Semester - ½ Credit - 11, 12  
Introduction to Communication explores the popular media: internet, newspapers, magazines, radio, television and film. The course includes hands-on activities with video camcorders. Students create mini-movies, commercials and video projects. Students will research and report on an AFI top 100 film.  
(College-bound students should find out if their university will accept this course.)  
**Fees:** None  
**Prerequisite:** None
ADVANCED PLACEMENT ENGLISH  
E355/356
LANGUAGE AND COMPOSITION  
Year - 1 Credit – 11

This college-level English course emphasizes academic writing skills, focusing on research, analysis, and argument essays. Both process writing and timed writing will be included. The course will also help students become skilled readers of non-fiction prose written in a variety of periods, disciplines and rhetorical contexts. Students will analyze prose to determine the effectiveness of a writer based on the writer's topic, audience, purposes and use of writing conventions. Special emphasis will be placed on analyzing the grammatical and rhetorical structures of writing.

To continue in AP English Language and Composition, students are expected to maintain a minimum semester grade of B-.

Fees: None

Prerequisite: A minimum semester grade of B- in all prior honors courses. Students who do not meet this requirement can still apply to enroll in the course through the department approval process. To gain department approval, the student must fill out an application. The application requires approval from prior English teachers, minimum semester grades of Bs or higher in all regular English courses and submission of an adequate writing sample (district writing assessment). Summer reading is required.

COMPOSITION FOR COLLEGE  
E401
Semester - ½ Credit – 11, 12

Composition for College is a course designed to prepare students for college-level writing. The course requires the student to analyze and produce increasingly complex essays through the application of the writing process. Skills in close reading, note taking, media analysis, research, collaboration and discussion will also be further developed throughout the course. This course is highly recommended for college bound students.

Fees: None

Prerequisite: None

THE AMERICAN NOVEL  
E405
Semester - ½ Credit - 11, 12

This college-bound course emphasizes critical thinking skills in analyzing five to six novels of American Literature from colonial times to the 20th Century. Novelists may include Hawthorne, Twain, Fitzgerald, Wright and others. There will be a heavy study of literary theory in conjunction with the chosen texts, and students will use an online discussion board to respond to the text and each other. Literary analysis essays will be required. Students will also be required to read two books outside of class.

Fees: None

Prerequisite: It is highly recommended that students take Critical Thinking & Writing before taking this course

WORLD LITERATURE  
E410
Semester - ½ Credit - 11, 12

In this course, students will read and analyze five novels from various countries in the world that address human rights violations and social justice issues that require social action. Novelists may include Khaled Hosseini, Herman Hesse, Aldous Huxley, and Chinua Achebe. Students will be required to submit four literary analysis essays and complete a group social action research project in conjunction with the reading of worldly texts—both fiction and nonfiction choice novel. Class time is largely discussion based, students will be expected to contribute to class discussion on a daily basis—strong discussion skills and opinions are expected.

Fees: None

Prerequisite: It is highly recommended that students take Critical Thinking & Writing before taking this course
**ENGLISH**

**TECHNICAL WRITING & COMMUNICATION**  
E415/416  
Year - 1 Credit - 12

This one-year course for seniors helps students acquire the skills needed to communicate well in the workplace through reading, writing, speaking, and listening activities. Students will prepare speeches, review grammar and punctuation, and summarize, analyze, and synthesize diverse readings using MLA documentation. Additionally, students will learn to generate various forms of effective business writing, conduct a job search and prepare application materials. Students who plan to attend technical college are well suited for this course.

**Fees:** None  
**Prerequisite:** None

**ADVANCED PLACEMENT ENGLISH LITERATURE & COMPOSITION**  
E455/456  
AP  
Year - 1 Credit - 12  
(Honors elective for senior year)

This is a college-level English course for students who have special abilities and interests in reading, analyzing, discussing and writing about literature with increased depth and insight. Course selections include poems, short stories, plays and novels of literary merit by noted American and world writers.

Emphasis is on close reading and discussion. Writing, researching, speaking and listening activities focus on understanding and appreciating the writer’s purpose, artistic style and themes in both historical and contemporary contexts.

**To continue in AP English Literature and Composition, students are expected to maintain a minimum semester grade of B-**

Performance on the Advanced Placement English Literature and Composition Examination determines possible college credit.

**Fees:** $80.00 (This fee covers the cost of required novels and literary materials for AP English. A group order will be placed during the summer to ensure students have their books at the start of the school year. This fee is due by June 1st prior to the start of the course)

**Prerequisites:** A minimum semester grade of B- in all prior honors/AP English courses. Students who do not meet this requirement can still apply to enroll in the course through the department approval process. To gain department approval, the student must fill out an application (available in guidance). The application requires approval from prior English teachers, minimum semester grades of Bs or higher in all regular English courses and submission of an adequate academic writing sample (district writing assessment). Summer reading is required.

**CONTENT AREA READING**

To ensure appropriate placement and success in the English curriculum, the English Department recommends that all students who fall into one or more of the following categories enroll in Content Reading Strategies and English 9 simultaneously. The credits earned in Content Area Reading can be applied to graduation requirements as English electives.

**Categories:**
1. Students who have historically not met the Wisconsin academic standards in core academic subjects.  
   **OR**  
2. Students who were recommended for additional reading help by their eighth grade reading or language arts teacher because of demonstrated skill deficiencies.

**CONTENT READING STRATEGIES**  
E501/502  
Year - 1 Credit - 9

This is a course for students who, based on test scores and academic records, need additional reading skills to succeed in all content areas. Students will focus on developing reading and studying strategies needed in high school.

**Fees:** None  
**Prerequisite:** Reading scores, grades and/or teacher recommendations that demonstrate a need for further reading and studying strategies.
FOODS 1  
Semester - ½ Credit - 9, 10

Foods 1 brings students together from a variety of food backgrounds and experiences. They will learn basic food preparation and cooking techniques. During the semester, students will discover how to use appliances, practice measuring skills, follow recipe instructions, and demonstrate safety and sanitation knowledge. Students will be exposed to foods from different parts of the world and will discover how to prepare tasty meals or snacks that meet nutrition and wellness needs.

Fees: $30.00
Prerequisite: None

FOODS 2  
Semester - ½ Credit - 10, 11

We provide an inside glimpse into the many career opportunities in the food service industry. Students will learn to evaluate foods as they sample products prepared in the variety of food preparation units. Students will experience baking, soup making, cake decorating, along with a variety of ethnic cuisine labs. Safety and sanitation, cost control, portion, and how to serve foods will be practiced throughout the semester. Students will implement that information to create their own restaurant with a specialty food.

Fees: $30.00
Prerequisite: None

DIVERSIFIED HEALTH SCIENCE OCCUPATIONS 1  
Semester - ½ Credit - 10, 11, 12

Diversified Health Science Occupations I is a one semester course. Students interested in the medical field will participate in a career interest survey and health career research. Students will explore healthcare facilities, career research, legal responsibilities in healthcare, personal qualities of the health care worker, and promotion of safety pertaining to health careers. Community partnerships that have been formed will allow students to job shadow and have a variety of classroom speakers. A portfolio of students’ assignments, job shadow and service experience will be included.

Fees: None
Prerequisite: None

INTERIOR DESIGN  
Semester - ½ Credit - 10, 11, 12

Interior design is an exciting discipline that makes life better through the design process. This project-based class offers an introduction to housing and interior design through both residential and commercial applications. During this course, students will become aware of the wide variety of floor plans, materials, furnishings, and styles possible in interior design. Students will focus on design basics utilizing principles and elements of design, color theory, presentation, and board construction to create effective design solutions. A strong art background is not necessary for this one semester course.

Fees: $15.00
Prerequisite: None
DIVERSIFIED HEALTH SCIENCE OCCUPATIONS 2  
Semester - ½ Credit - 11, 12

Diversified Health Science Occupations 2 is a one semester course. This course is designed to help students narrow their career choices in an area of the medical field by participating in career and college searches and researching health care systems. A basic medical textbook will be used to include the following: medical terminology, investigating diseases, development, safety and procedures, and common health problems to name a few. Preparation is in the forms of interviewing, completing job applications, and resume writing. A variety of options will be required to help students get a better understanding of the careers they are interested in, including speakers, job shadows, and college visits.

Fees: None

Prerequisite: Diversified Health Occupations 1 or approval of instructor

CHILD CARE SKILLS  
FS310
Semester - ½ Credit - 11, 12

This class provides practical lessons and hands-on activities that help students understand the characteristics and developmental stages of children from birth to age six. Students will be exposed to skills and strategies that enhance and enrich interactions with young children in a family or childcare setting. Off-site and school based observation and teaching experiences are integrated into the curriculum. Personal professional development, including interpersonal skills, will be incorporated into lessons and activities.

CERTIFICATIONS: Assistant Child Care Teacher (ACCT) certification from the Wisconsin Department of Public Instruction. Students must be 17 years of age or older upon course completion to earn ACCT certification and be eligible for entry-level employment status in the early childhood education field.

Fees: $10.00

Prerequisite: None

SENIOR FOODS  
FS401
Semester - ½ Credit - 12

Senior Foods is a one semester course and is open to all seniors, regardless of their background in the area of foods. Emphasis is placed on the practical aspect of food purchasing, meal planning, and preparation. Individual planning and preparation of breakfast and dinner meals will be included in the course. The course is highlighted by a Thanksgiving/Easter buffet, which enables a student to see how large quantities of foods are prepared and served for potential careers in Hotel and Restaurant Management. Holiday baking and/or outdoor cooking conclude the semester course. Senior foods is a practical course geared to meet the needs and interests of seniors as they head out on their own in the next few years.

Fees: $30.00

Prerequisite: None
Family and Consumer Sciences Co-Op is a vocational program offered to high school seniors. Job placements are designed to help students gain experience in a real-world context while transitioning from school into a career of their choice. A student involved in a certified skills co-op receives high school credit for the work experiences and for the related school class. They may also earn a DPI certificate of proficiency in the technical area. Late arrival or early release privileges are a possibility. Students must provide their own transportation.

Areas for certification include:
- **Child Services** (Child Care, Elementary Education, Pediatric Nursing, or Therapy)
- **Family & Community Services** (Senior Care, Special Education Aide, Park & Recreation)
- **Food Science & Hospitality** (Hotels, Restaurants, Dietary, Grocery stores, Travel)
- **Health Sciences** (Dental, Chiropractic, Veterinary, Pharmacy, Medical Clerk, or CNA)
- **Interior or Fashion Design** (Customer Service, Cosmetology, Furniture or Dept. Stores, Landscaping)

**Fees**: None

**Prerequisite**: Consent of instructor

**YOUTH APPRENTICESHIP 1/2**

Year – 1 Credit – 11, 12

There are potential Youth Apprenticeship opportunities across all career pathways. Students interested in meaningful work experience that will help them determine their post-high school education/training should speak with their school counselor. Further information on Youth Apprenticeships can also be found on pages 14-15 of this course guide book or online at [https://dwd.wisconsin.gov/youthapprenticeship/](https://dwd.wisconsin.gov/youthapprenticeship/). Students who sign up for Youth Apprenticeship will be contacted in January by the School Counseling Office to determine proper placement.
Students are required to successfully complete a minimum of three (3) credits of math. Students planning to pursue a degree at either a 2- or 4-year college/university are advised to complete at least three (3) credits of sequential mathematics to better prepare themselves for success at that level and to meet minimum admission standards. This implies that students need to complete course work through Advanced Algebra. Colleges and universities, however, strongly recommend that high school students complete a comprehensive mathematics program involving four (4) full years of mathematics.

<table>
<thead>
<tr>
<th>Prerequisite</th>
<th>9th Grade</th>
<th>10th Grade</th>
<th>11th Grade</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Path 1</td>
<td>Completion of 8th Grade Math</td>
<td>Algebra A</td>
<td>Algebra B</td>
<td>Geometry</td>
</tr>
<tr>
<td>Path 2</td>
<td>Completion of 8th Grade Math</td>
<td>Algebra</td>
<td>Geometry</td>
<td>Advanced Algebra</td>
</tr>
<tr>
<td>Path 3</td>
<td>Successful completion of Algebra with a grade of C or higher</td>
<td>Geometry</td>
<td>Advanced Algebra</td>
<td>Pre-Calculus</td>
</tr>
<tr>
<td>Path 4</td>
<td>Algebra with a grade of A and meets honors criteria</td>
<td>Honors Geometry</td>
<td>Honors Advanced Algebra</td>
<td>Pre-Calculus Honors Pre-Calculus</td>
</tr>
<tr>
<td>Path 5</td>
<td>Completion of Geometry with a grade of B or higher. Meets criteria for acceleration plan.</td>
<td>Honors Advanced Algebra</td>
<td>Pre-Calculus Honors Pre-Calculus</td>
<td>AP Calculus AB +</td>
</tr>
</tbody>
</table>

**Teacher Recommendation Required**

* only with additional summer work

**ALGEBRA A**

**MA107/108**

Year - 1 Credit - 9

Algebra A is the first half of a two-year Algebra sequence. Algebra A will cover some Pre-Algebra topics as well as the first semester of traditional Algebra. This sequence is ideal for students who would like to take Algebra in a setting that provides more support for students learning the topic with reinforcement of basic concepts. Algebra A/B will earn students two credits of mathematics toward graduation; however, colleges and universities will consider Algebra A/B as one total Algebra credit.

**Fees:** None (A graphing calculator is required—TI-84 plus is recommended)

**Prerequisite:** Placement into Algebra A will be based upon math scores, grades and/or teacher recommendation.
### ALGEBRA B

**MA109/110**  
Year - 1 Credit - 10

Algebra B is the second half of a two-year Algebra sequence. Successful completion of Algebra A is a prerequisite for taking this course. Algebra B will cover the second semester of traditional Algebra with an introduction to Geometry at the end of the year. This sequence is ideal for students who would like to take Algebra in a setting that provides more support for students learning the topic with reinforcement of basic concepts. Algebra A/B will earn students two credits of mathematics toward graduation; however, colleges and universities will consider Algebra A/B as one total Algebra credit.

**Fees:** None (A graphing calculator is required—TI-84 plus is recommended)

**Prerequisite:** Algebra A

### ALGEBRA

**MA111/112**  
Year - 1 Credit - 9

This course offers an in-depth investigation into solving equations and inequalities. The concept of a function is introduced and linear, exponential, and quadratic functions are explored. Systems of equations and inequalities are investigated and solved using various techniques. Manipulations of polynomials and factoring are taught and radical expressions and equations are introduced. The basics of data analysis and probability are also studied.

**Fees:** None (A graphing calculator is required—TI-84 plus is recommended)

**Prerequisite:** None

### GEOMETRY

**MA211/212**  
Year - 1 Credit - 9, 10

Geometry is a one year course in which students study the properties of plane and solid figures through construction, investigation, conjecture, and proof-writing. Topics discussed include coordinate geometry, transformational geometry, measurement formulas, and an introduction to trigonometry.

**Fees:** None (A graphing calculator, ruler, protractor, and compass are required)

**Prerequisite:** Successful completion of Algebra or Algebra A & Algebra B

### HONORS GEOMETRY

**MA211H/212H**  
Year - 1 Credit – 9

Honors Geometry contains the same major points of emphasis as regular Geometry, with added emphasis on constructions, transformations, coordinate geometry, and trigonometry. Honors Geometry offers a more in-depth exploration of each topic and stresses applications to everyday situations.

**To continue in the Honors Mathematics curriculum, students are expected to maintain a minimum grade of B- in 1st semester Honors Geometry.**

**Fees:** None (A graphing calculator is needed as well as a compass and protractor)

**Prerequisite:** Multiple criteria including middle school grades, previous courses taken, state and local testing results, MAP testing scores, and teacher recommendation
## MATHEMATICS

### TRANSITIONAL MATHEMATICS  MA305/306
**Year** - 1 Credit – 11, 12

Transitional Mathematics provides both preparation and remediation for Advanced Algebra. The course uses mathematical modeling to clarify and solve a wide range of real-world problems including problems from science, art, business, and probability. Some colleges may not accept this course as the third mathematics credit or a part of the three extra credits required from the core area.

**Fees:** None (A graphing calculator is required—TI-84 plus is recommended)

**Prerequisite:** Geometry and teacher recommendation

### ADVANCED ALGEBRA  MA311/312
**Year** - 1 Credit - 10, 11, 12

This course emphasizes facility with algebraic expressions and forms, especially linear and quadratic forms, powers and roots, and functions based on these concepts. Students will study logarithmic, trigonometric, polynomial, and other special functions both for their abstract properties and as tools for modeling real-world situations.

**Fees:** None (a graphing calculator is required—TI-84 plus is recommended)

**Prerequisite:** Successful completion of Geometry

### HONORS ADVANCED ALGEBRA  MA311H/312H
**Year** - 1 Credit – 10

Honors Advanced Algebra is an accelerated course that includes all of the topics of Advanced Algebra as well as additional extensions of unit topics. Honors Advanced Algebra offers a more in-depth examination of each unit of study and emphasizes applications to everyday situations. Students complete real-life application projects in addition to unit assessments.

**To continue in the Honors Mathematics curriculum, students are expected to maintain a minimum grade of B- in 1st semester Honors Advanced Algebra.**

**Fees:** None (a graphing calculator is required—TI-84 plus is recommended)

**Prerequisite:** Teacher recommendation and completion of Honors Geometry with a grade of B- or higher or Geometry with a grade of A

### PREPARATION FOR COLLEGE MATHEMATICS  MA405/406
**Year** – 1 Credit – 11, 12

Preparation for College Mathematics is designed for students who plan to attend college, but are not prepared for or interested in the calculus courses. This course will allow students to analyze functions and their graphs. Students will study polynomial, rational, exponential and logarithmic functions. The course will also cover sequences, series, and probability. Some colleges may not accept this course as the third mathematics credit or a part of the three extra credits required from the core area.

**Fees:** None (A graphing calculator is required. The TI-84 plus is recommended)

**Prerequisite:** Successful completion of Advanced Algebra and Geometry or IMP 4
MATHEMATICS

PRE-CALCULUS MA411/412
Year - 1 Credit – 11, 12
Pre-calculus is designed for juniors taking A.P. Calculus as seniors or very talented seniors who are planning to enroll in the mathematics or physical science fields in college. Topics include a thorough study of circular and triangular trigonometry, a study of logarithms and exponents, conic sections, polynomial expressions and fractional equations, series and sequences, analytical geometry, and probability.

Fees: None (A graphing calculator is required—TI-84 plus is recommended)

Prerequisite: Successful completion of Preparation for College Math, Advanced Algebra, or IMP 4 and teacher recommendation

HONORS PRE-CALCULUS MA411H/412H
Year - 1 Credit – 11, 12
Honors Pre-calculus is designed for juniors taking A.P. Calculus as seniors. Topics include a thorough study of circular and triangular trigonometry, a study of logarithms and exponents, conic sections, polynomial expressions and fractional equations, series and sequences, analytical geometry, probability, as well as beginning Calculus. To continue in the Honors Mathematics curriculum, students are expected to maintain a minimum grade of B- in 1st semester Honors PreCalculus.

Fees: None (A graphing calculator is required—TI-84 plus is recommended)

Prerequisite: Teacher recommendation and completion of Honors Advanced Algebra with a grade of B or higher or Advanced Algebra with a grade of A.

ADVANCED PLACEMENT MA421/422
STATISTICS
Year - 1 Credit – 11, 12
This course is designed to offer students an introduction to statistics through analysis and quantitative study of data sets. The AP Statistics course involves four major themes: exploring data, planning a study, anticipating patterns, and confirming models through inference. The course is designed for high achieving mathematics students who have the ability to analyze numerical relationships and to communicate their understanding of these relationships.

Fees: None (a graphing calculator is required—TI-84 plus is recommended)

Prerequisite: Proficient in Advanced Algebra (and teacher recommendation) or successful completion of IMP 4, Prep for College Math, Pre-Calculus, Honors Pre-Calculus or AP Calculus AB/BC.

ADVANCED PLACEMENT MA431/432
CALCULUS (AB)
Year - 1 Credit - 11, 12
The Advanced Placement Calculus course will give students an opportunity to study college level mathematics in their senior year. At the completion of the course, the student may opt to take an Advanced Placement examination through which he/she may obtain college credit. This course is equivalent to most colleges’ first semester calculus course. It will include topics in beginning differential and integral calculus.

Fees: None (a graphing calculator is required)

Prerequisite: Successful completion of Honors Pre-Calculus, Pre-Calculus, or IMP 4 and teacher recommendation
ADVANCED PLACEMENT

CALCULUS (BC)

Year - 1 Credit - 11, 12

The AP Calculus BC course is identical to the Calculus AB curriculum, except that it will move at a much faster pace, allowing for the coverage of additional chapters and topics typically found in a second semester college level course. At the completion of the course, the student may opt to take an Advanced Placement exam through which he/she may obtain up to two semesters worth of college credit. It will include topics in differential and integral calculus, as well as parametric and polar analysis, and polynomial approximations and series.

Fees: None (a graphing calculator is required)

Prerequisite: Successful completion of Honors Pre-Calculus or Pre-Calculus with teacher recommendation and additional summer work.

ANALYTIC GEOMETRY AND

CALCULUS III

Year – 1 Credit – 12

This college course is currently offered at Germantown High School under an agreement with MATC for transcripted credit. Upon successful completion, a student will be awarded the credits for MATH 233 from MATC.

Topics covered include: vectors and the geometry of vectors, vector valued functions, functions of several variables, multiple integrals, and vector analysis.

This is a year-long course, and quarter grades and semester grades will not be given. Rather, the current grade will be monitored as a progress report throughout the year. A student that fails to complete the class will be given a grade of “U” on the MATC transcript.

Fees: None

Prerequisite: AP Calculus BC and a score of 3 or higher on the AP Calculus BC exam.
MUSIC EDUCATION

CHORAL MUSIC
Vocal music courses at Germantown High School offer opportunities for both the experienced and inexperienced singer. In each of the choirs, students work to develop proper singing skills and music reading skills. Classroom instruction is geared toward helping students attain the National Standards for Arts Education in music. Music from various time periods and styles is presented. Students perform concerts for their peers, families, and community, both during and outside of school hours. Students also have the opportunity to participate in the annual Solo and Ensemble Festival on the district and state level.

INSTRUMENTAL MUSIC
(Concert Winds / Symphonic Band / Jazz Ensemble)
The instrumental concert organizations offer an opportunity for intermediate and advanced level musicians to continue their musical education by improving their playing skills and level of musicianship as they study, rehearse, prepare, and perform a variety of music. While most musicians have prior instrumental experience, there are opportunities for new musicians. In addition, students who have not played for a year or more are also welcome in our band programs. There are three concert bands in the GHS program (Concert Winds, Symphonic Band and Wind Symphony) in addition to Jazz Ensemble.

GENERAL MUSIC
(Music Theory Computer Composition / AP Music Theory)
There are two music theory options at Germantown High School. The Music Theory/Computer Composition is a semester class that combines the learning of music fundamentals with the creation of musical compositions. The AP Music Theory Class is a yearlong course of study which begins with the building blocks of music delves deeper into more advanced aspects of music theory, sight singing, ear-training, music dictation and music analysis. This course will culminate in the taking of the College Board AP Music Theory test. Students who take this course should be dedicated musicians with a thirst for increased musical knowledge, an intrinsic curiosity and an insatiable work ethic.

CHORUS
MU101/102
Year - 1 Credit - 9, 10, 11, 12
Chorus is a performance choir that is designed to teach basic skills and techniques of choral singing. Students will learn to read a choral score, and will learn the how to effectively use their voices in choral music. Emphasis will be put on breathing, posture, singing technique, and rehearsal techniques. Students enrolled in this class will participate in choir concerts, Solo/ensemble Festival (optional), and clinics/festivals throughout the year.
Fees: None
Prerequisite: None

CONCERT WINDS
MU121/122
Year - 1 Credit - 9
The Freshman Concert Winds performs quality music literature, appropriate for the development of the band. The ensemble is open to any freshman who plays a woodwind, brass, or percussion instrument, or has a desire to learn and instrument. Students will continue to develop the technical skills necessary for performing more advanced music. The members of the group will perform at GHS concerts and the annual Chamber Series. In addition, students will study music theory, music history, and marching band basics.
Fees: $8.00
Prerequisite: Middle School band or consent of teacher.
The Wind Symphony studies and prepares concert music of an advanced level. The Wind Symphony performs in concert multiple times throughout the school year. The ensemble is open to more accomplished brass, percussion, and woodwind players. Students gain admittance to this group via audition during the previous year or through appointment by the instructor. Previous band experience and consent of instructor are required.

**Fees:** $8.00

**Prerequisite:** Freshman Concert Winds or consent of instructor. Admission only by audition/appointment.

**Jazz Ensemble**  
Year - ½ Credit - 9, 10, 11, 12

Jazz ensemble provides an opportunity for instrumental musicians to learn music from a variety of popular and jazz styles. Time is spent studying jazz improvisation, theory, and interpretation in addition to preparing for performances. Previous musical experience and the consent of the instructor are required. If there is enough interest to warrant two sections of jazz ensemble the students will be assigned to groups based on experience and playing ability.

**Fees:** None

**Prerequisite:** Permission of instructor and membership in Concert Winds, Symphonic Band or Wind Symphony

**Music Theory & Technology**  
Semester - ½ Credit - 9, 10, 11, 12

Music Theory/Technology is designed to incorporate the basic fundamentals of music with computer applications. Students will learn to compose and arrange works via computer sequencing and music notation processing using the notation programs Finale and MuseScore. Students will also work with audio recording and editing software, as well as learn the basics of recording and live sound production. This course will reinforce musical concepts used in band and choir classes, teach students to read music at a more advanced level, and provide a solid foundation for students wishing to take the AP Music Theory class in the future.

**Fees:** None

**Prerequisite:** None

**Cantanti**  
Year – 1 Credit - 10, 11, 12

Cantanti is an ensemble open to advanced Sophomore through Senior treble singers who wish to more fully explore treble choral singing. Singers in Cantanti will sing diverse and comprehensive choral literature from the vast repertoire of treble/SSA choral literature. Students enrolled in this class will participate in choir concerts, tours, Solo/Ensemble Festival (optional), and clinics throughout the year. This choir is open to women and men with unchanged/soprano/alto voices.

**Fees:** None

**Prerequisites:** One year in Chorus, and/or by permission of the director
CONCERT CHOIR  
MU211/212  
Year - 1 Credit - 10, 11, 12

Concert Choir is an auditioned, advanced choral performance ensemble geared to experienced choir students who wish to explore choral music and singing at a high level. Concert Choir students will perform an eclectic and diverse survey of the choral repertoire in many languages, genres, styles, and from many cultures. Students in this ensemble must have completed one year in either Chorus or Cantanti, or received permission from the choir director, and have performed adequately in an audition to be held prior to enrollment.

Fees: None

Prerequisites: One year in Chorus or Cantanti, or by director’s permission, and completion of an audition.

SYMPHONIC BAND  
MU221/222  
Year - 1 Credit - 10, 11, 12

The Symphonic Band is an concert band ensemble that is open to any student who plays a woodwind, percussion, or brass instrument. Music for study and performance is drawn from the large body of compositions for intermediate high school band. The Symphonic Band performs at various concerts throughout the year. Previous experience in band is recommended, but not required. Students who are new or returning to band are welcome to enroll in Symphonic Band.

Fees: $8.00

Prerequisite: Freshman Concert Winds or middle school band experience preferred.

ADVANCED PLACEMENT MUSIC THEORY  
MU251/MU252  
Year – 1 Credit - 10, 11, 12

AP Music Theory is a yearlong course of study which begins with the building blocks of music and then delves deeper into more advanced aspects of music theory, sight singing, ear-training, music dictation and music analysis. This course will culminate in the taking of the College Board AP Music Theory test. Students enrolled will be issued an iPad for use with music theory software and ear-training apps. Students who take this course should be dedicated musicians with a thirst for increased musical knowledge, an intrinsic curiosity, and an insatiable work ethic. This class is highly recommended for those wishing to study music at the college level.

Fees: $35.00

Prerequisite: None
PHYSICAL EDUCATION

Physical Education is considered an integral part of the total education program. This program provides opportunities and experiences to develop the physical, emotional, intellectual and social aspects of the individual. It also includes rules, safety, strategy, independent projects and written exams related to the units of activity.

Students in physical education will receive a program orientation designed for their class level. Units are based on fundamental progress from the simple to complex. The following general education areas are stressed in the program:

1. Physical fitness
2. Lifetime sports
3. Recreational activities

The program is required for freshman, sophomore, and junior students. The senior year is optional, though seniors are encouraged to take at least one semester.

- Freshman, one semester, ½ credit  (Required)
- Sophomores, one semester, ½ credit  (Required)
- Juniors, one semester, ½ credit  (Required)
- Seniors, one semester, ½ credit  (Elective)

All students at the freshman level are encouraged to have a physical exam upon entering high school. Students are required to purchase a standardized school lock from the bookstore.

HEALTH

This course will explore the various aspects of human health with an emphasis placed on maintaining good health and preventing health problems. Current information concerning nutrition, diet, fitness, human development, mental health, stress, substance abuse, consumer rights, disease, and safety will be presented and discussed. This is a required course for students.

Fees: None
Prerequisite: None

FRESHMAN PHYSICAL EDUCATION

Freshmen meet every day for one semester. The following units are or have been offered at this level: flag football, tennis, lacrosse, badminton, speedball, volleyball, eclipse ball, ultimate frisbee, speedminton, basketball, swimming, water activities and introduction to personal fitness.

Fees: $5.00
Prerequisite: None

SOPHOMORE PHYSICAL EDUCATION

Sophomores meet every day for one semester. Students must select from the following units:

TEAM GAMES 1

In this course, we will work together to create an accepting, competitive environment in which ALL are able to improve their skills and knowledge in a wide variety of lifelong activities. By doing so, you will create a toolbox that will empower you to become a healthy, physically active individual for a lifetime. Various units we will cover include: Badminton, Basketball, Flag Football, Floor Hockey, Net Games, Ultimate Frisbee, and Water Activities!

The alternative exam for this course is the creation of an activity or a game that is presented to the class.

Fees: None
Prerequisite: None
NON-TRADITIONAL ACTIVITIES 1

Non-Traditional Activities include sports that allow students to branch out from the traditional Physical Education curriculum and experience new activities. They include ultimate frisbee, disc golf, bocce ball, eclipse ball, speedball, nitro ball, pickleball, badminton, aquatic activities, floor hockey, korfbalı, and a variety of fitness activities. Students also create goals for the semester and for each individual unit they then strive to achieve it. The semester exam is in a form of a reflection of their goals and the units throughout the semester.

Fees: None
Prerequisite: None

CONDITIONING & STRENGTH TRAINING

This class is a workout class designed for the highly self-motivated, goal-oriented individual. The emphasis is developing conditioning and strength in many different ways. The following types of exercises and concepts will be used: presentation of fitness concepts, safety and spotting techniques, lifting techniques, record keeping of fitness program, fitness testing throughout the semester to evaluate and measure progress, ground-based lifts, band workouts, aquatic exercises, body weight exercises and core strength routines. A final exam is in the form of a fitness project. This is a partner fitness-based project that allows you to create a workout for another person and serve as that partner’s trainer for the class period.

Fees: None
Prerequisite: None

AT THE CLUB 1

This course will center on daily moderate workouts that emphasize aerobics, toning, and flexibility. The following types of workouts will be used: body sculpting, swimming, circuit training, jogging/walking, step aerobics, and aerobic based training machines. Evaluation for the semester will be based on a fitness portfolio and presentation in lieu of a test.

Fees: None
Prerequisite: None

JUNIOR PHYSICAL EDUCATION

Semester - ½ Credit - 11

Juniors meet every day for one semester. Students must select from the following units, but cannot repeat the unit taken their sophomore year. The only exception to this is you can “re-credit” Conditioning and Strength Training multiple times with teacher consent.

TEAM GAMES 2

In this course, we will continue to work together to create an accepting, competitive environment in which ALL are able to improve their skills and knowledge in a wide variety of lifelong activities. Various units we will cover include: Badminton, Basketball, Flag Football, Floor Hockey, Net Games, Ultimate Frisbee, a variety of other field and court activities and Water Activities.

Fees: None
Prerequisite: Team Games 1
NON-TRADITIONAL ACTIVITIES II

Non-Traditional Activities II continues the pathway to new and exciting activities that branch out away from the traditional Physical Education curriculum. Activities such as cross country skiing, snowshoeing, netball, tennis, team handball, spike ball, soccer, floor hockey, volleyball, ultimate frisbee, aquatic activities, badminton, whiffle ball and a variety of fitness activities. Besides cross country skiing and snowshoeing, there will be other adventure education opportunities within this course. The final exam is in the form of a goal and future wellness planning project.

Fees: None
Prerequisite: Non-Traditional Activities 1

AT THE CLUB II

This course will continue and further develop the daily moderate work-outs done in At the Club I.

Fees: None
Prerequisite: At the Club 1

CONDITIONING & STRENGTH TRAINING

This class is a workout class designed for the highly self-motivated, goal-oriented individual. The emphasis is developing conditioning and strength in many different ways. The following types of exercises and concepts will be used: presentation of fitness concepts, safety and spotting techniques, lifting techniques, record keeping of fitness program, fitness testing throughout the semester to evaluate and measure progress, ground-based lifts, band workouts, strength/speed endurance workouts, aquatic exercises, body weight exercises and core strength routines. A final exam is in the form of a fitness project. This is a partner fitness-based project that allows you to create a workout for another person and serve as that partner’s trainer for the class period.

Fees: None
Prerequisite: None

LIFEGUARD TRAINING

This course will follow the American Red Cross Professional Lifeguard Training and allows 11th and 12th grade candidates the opportunity to become Lifeguard Certified. Course content and activities are hands-on and prepares candidates to recognize and respond quickly and effectively to aquatic emergencies. Course time is allotted for basic lifeguard training, CPR, First Aid, and AED training. Maturity, self-motivation, self-evaluation and knowledge of the basic swim strokes are essential attributes for this course.

Fees: $67.00
Prerequisite: Students must be in 11th-12th grade, be 15 years of age or older, swim 300 yards continuously, tread water for 2 minutes using only the legs, and complete a timed event consisting of the following within 1 minute, 40 seconds: start in the water, swim 20 yards, surface dive to a depth of 7 to 10 feet to retrieve a 10-pound object, return to the surface and swim 20 yards on the back to return to the starting point, and exit the water without using steps or a ladder.

PHYSICAL EDUCATION ELECTIVES

CONDITIONING & STRENGTH TRAINING

This class is a workout class designed for the highly self-motivated, goal-oriented individual. The emphasis is developing conditioning and strength in many different ways. The following types of exercises and concepts will be used: presentation of fitness concepts, safety and spotting techniques, lifting techniques, record keeping of fitness program, fitness testing throughout the semester to evaluate and measure progress, ground-based lifts, band workouts, strength/speed endurance workouts, aquatic exercises, body weight exercises and core strength routines. A final exam is in the form of a fitness project. This is a partner fitness-based project that allows you to create a workout for another person and serve as that partner’s trainer for the class period.

Fees: None
Prerequisite: None
PHYSICAL EDUCATION

LIFEGUARD TRAINING  PE361
Semester – ½ Credit – 12

This course will follow the American Red Cross Professional Lifeguard Training and allows 11th and 12th grade candidates the opportunity to become Lifeguard Certified. Course content and activities are hands-on and prepares candidates to recognize and respond quickly and effectively to aquatic emergencies. Course time is allotted for basic lifeguard training, CPR, First Aid, and AED training. Maturity, self-motivation, self-evaluation and knowledge of the basic swim strokes are essential attributes for this course.

Fees: $67.00

Prerequisite: Students must be in 11th-12th grade, be 15 years of age or older, swim 300 yards continuously, tread water for 2 minutes using only the legs, and complete a timed event consisting of the following within 1 minute, 40 seconds: start in the water, swim 20 yards, surface dive to a depth of 7 to 10 feet to retrieve a 10-pound object, return to the surface and swim 20 yards on the back to return to the starting point, and exit the water without using steps or a ladder.

P.E. STUDENT LEADER  PE371/372
½ Credit per Semester - 11, 12

The student leader program is considered an addition to the regular physical education program, and not a substitute for the program. The number of students involved will depend on the need. The responsibility categories are as follows: officiating, demonstration, clerical responsibilities, locker room supervision, equipment, hall supervision, test situations and assistance with small groups. Student leaders are expected to be positive members of GHS both in and out of physical education classes. They are also expected to follow school rules. This course is given a pass or fail grade on report cards. Failure to maintain other academic standards in other classes may also result in removal from the program.

Anyone who would like to be a Student Leader must complete the PE Student Leader form. This recommendation form must be signed by a PE teacher to ensure that candidates are a good match for the program and understand all required expectations.

Fees: None

Prerequisite: Juniors or seniors with an "A" average in physical education and schedule availability.

SENIOR PHYSICAL EDUCATION  PE411
Semester - ½ Credit - 12

This course consists of lifetime activities. Seniors meet every day for one semester. Students can select the course first and/or second semester. The following units may be offered at the senior level: basketball, badminton, flag football, volleyball, eclipse ball, disc golf, ultimate frisbee, lacrosse, softball, floor hockey, team handball, tennis, and water sports in the pool. The course is highlighted by two field trips which in the past have included rock climbing and an adventure obstacle course.

Field Experiences: Cost of field experiences are $30.00 to pay for bus transportation and sport fees. Payment for field experiences is due at registration. All field experiences are curriculum related.

Fees: $30.00

Prerequisite: “C” average in Freshman, Sophomore, or Junior PE or consent of department chair.

AT THE CLUB 3  PE451
Semester - ½ Credit – 12

This course will continue and further develop physical fitness levels with the daily moderate workouts similar to At the Club 1 & 2. The class is for Seniors only.

Fees: None

Prerequisite: At the Club 2
PROJECT LEAD THE WAY

Project Lead the Way consists of rigorous and innovative Science, Technology, Engineering, and Mathematics (STEM) curriculum. STEM education programs like the one offered by PLTW engage students in activities-, projects-, and problem-based (APPB) learning, which provides hands-on classroom experiences. Students create, design, build, discover, collaborate and solve problems while applying what they learn in math and science. They’re also exposed to STEM fields through professionals from local industries who supplement the real-world aspect of the curriculum through mentorships and workplace experiences.

PLTW’s comprehensive curriculum has been collaboratively designed by PLTW teachers, university educators, engineering professionals and school administrators to promote critical thinking, creativity, innovation and real-world problem-solving skills in students.

The PLTW program at Germantown High School has undergone a rigorous review process and has earned national accreditation status. This allows:

✓ Germantown High School to ensure implementation of a high-quality PLTW program
✓ Students to gain access to opportunities for college-level recognition, such as college credit, scholarships, and admissions preference

Project Lead the Way Curriculum

<table>
<thead>
<tr>
<th>Pathway</th>
<th>9th Grade</th>
<th>10th Grade, 11th Grade, 12th Grade</th>
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<tbody>
<tr>
<td>Project Lead the Way Pathway</td>
<td>Introduction to Engineering *</td>
<td>Principles of Engineering * ~</td>
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<td>Environmental Sustainability * ~</td>
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<td>Civil Engineering &amp; Architecture *</td>
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<td>Digital Electronics *</td>
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</tbody>
</table>

* Students can receive 3 college credits (elective) upon successful completion of this course.
~ Students will receive a science equivalency credit for successful completion of this course.

PLTW-IED – INTRODUCTION TO ENGINEERING DESIGN

Year – 1 Credit – 9, 10, 11, 12

This course emphasizes the engineering process and development of a design. Students use computer software to produce, analyze and evaluate models of project solutions. They study the design concepts of form and function, and then use state of the art technology to translate conceptual design into reproducible products. This course teaches students to:

• Understand and apply the design process to solve various problems in a team setting;
• Apply adaptive design concepts in developing sketches, features, parts and assemblies;
• Interpret their own sketches in using computer software to design models;
• Understand mass property calculations-such as volume, density, mass, surface area, moment of inertia, product of inertia, radii of gyration, principal axis and principle moments-and how they are used to evaluate a parametric model;
• Understand cost analysis, quality control, staffing needs, packing and product marketing;
• Explore career opportunities in design engineering and understand what skills and education these jobs require; and
• Develop portfolios to display their designs and present them properly to peers, instructors and professionals.

Note: Upon successful completion of this course, students can earn 3 undergraduate credits from a PLTW affiliate university.

Fees: $20.00
Prerequisite: None
PLTW - POE – PRINCIPLES OF ENGINEERING
Year – 1 Credit – 10, 11, 12

This course provides an overview of engineering and engineering technology. Students develop problem-solving skills by tackling real-world engineering problems. Through theory and practical hands-on experiences, students address the emerging social and political consequences of technological change. The course of study includes:

- **Overview and Perspective of Engineering.** Students learn about the types of engineers and their contributions to society.
- **Design Process.** Students learn about problems solving and how products are developed to include how engineers work in teams.
- **Communication and Documentation.** Students collect and categorize data, produce graphic representations, keep and engineer’s notebook and make written and oral presentations.
- **Engineering Systems.** Students learn about the mechanical, electrical, fluid and pneumatic and control systems.
- **Statics.** Students learn about measurement, scalars and vectors, equilibrium, structural analysis, and strength of materials.
- **Materials and Materials Testing.** Students learn the categories and properties of materials, how materials are shaped and joined, and material testing.
- **Thermodynamics.** Students will learn about units and forms of energy, energy conversion, cycles, efficiency and energy loss, and conservation techniques.
- **Engineering Quality and Reliability.** Students will use precision measurement tools to gather and apply statistics for quality and process control. Students will also learn about reliability, redundancy, risk analysis, factors of safety, and liability and ethics.
- **Dynamics.** Students will be introduced to linear and trajectory motion.

Note: **Upon successful completion of this course, students can earn 3 undergraduate credits from a PLTW affiliate university.** Students will receive a science equivalency credit upon successful completion of this course.

FEES: $20.00

Prerequisite: Concurrent enrollment in Geometry

PLTW – CIVIL ENGINEERING AND ARCHITECTURE
Year – 1 Credit – 10, 11, 12

Civil Engineering and Architecture is the study of the design and construction of residential and commercial building projects. The course includes an introduction to many of the varied factors involved in building design and construction including building components and systems, structural design, storm water management, site design, utilities and services, cost estimation, energy efficiency, and careers in the design and construction industry.

The major focus of the CEA course is to expose students to the design and construction of residential and commercial building projects, design teams and teamwork, communication methods, engineering standards, and technical documentations. Utilizing the activity-project-problem-based (APPB) teaching and learning pedagogy, students will analyze, design and build electronic and physical models of residential and commercial facilities. While implementing these designs, students will continually hone their interpersonal skills, creative abilities, and understanding of the design process.

The course of study includes:

- **Overview of civil engineering and architecture**
  - History of civil engineering and architecture
  - Careers in civil engineering and architecture
- **Residential design**
  - Building design and construction practices
  - Cost analysis
  - Energy efficiency
  - Storm water analysis
  - Water supply
  - Plumbing
  - Electrical systems
  - Wastewater management
  - Affordable housing design
  - Universal design
- **Commercial applications**
  - Commercial buildings
  - Structural design
PROJECT LEAD THE WAY

- Services and utilities
- Site considerations
- Commercial Building Design
  - Commercial building design project
  - Commercial building design presentation

Note: Upon successful completion of this course, students can earn 3 undergraduate credits from a PLTW affiliate university.

Fees: $20.00

Prerequisite: Students may benefit from having previously taken POE or Architectural Drafting/Design

PLTW - DIGITAL ELECTRONICS
TE353/354
Year – 1 Credit – 10, 11, 12

Project Lead the Way Digital Electronics is a course designed as a foundation course for any student wishing to pursue Engineering, Engineering Technology, or any technical occupation. Digital Electronics touches all our lives on a daily basis, it’s the basic way nearly all automatic devices are controlled from microwave ovens and watches to calculators, computers, medical equipment, cars, manufacturing systems, the list is endless. It is essential for anyone in a technical field to have a basic understanding of how digital systems, sensors, and controls work. This course is taught in a hands-on manner beginning with basic concepts, circuit design and analysis, testing, and prototype construction. Most activities will involve the presentation of information on new concepts, problem-solving activities using the new concepts, followed by computer simulation and circuit construction (wiring). Some activities will be taken to the printed and soldered circuit board stage. Topics of study will include:
- Analog and digital fundamentals
- Number systems and binary addition
- Logic gates and functions
- Boolean algebra and circuit design
- Decoders, multiplexers and de-multiplexers

Note: Upon successful completion of this course, students can earn 3 undergraduate credits from a PLTW affiliate university.

Fees: $20.00

Prerequisite: Students may benefit from having previously taken POE

ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES
TE355/356
Year – 1 Credit – 10, 11, 12

Open doors in any career with computer science! Students create apps for mobile devices, automate tasks in a variety of languages, find patterns in data, and interpret simulations. Students collaborate to create and present solutions that can improve people’s lives. How will computing and connectivity transform your world?

Students work in teams to develop computational thinking and problem-solving skills. The course covers the College Board’s new CS Principles framework. The course does not aim to teach mastery of a single programming language, but aims instead to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity. The course also aims to build students’ awareness of the tremendous demand for computer specialists and for professionals in all fields who have computational skills. Each unit focuses on one or more computationally intensive career paths. The course also aims to engage students to consider issues raised by the present and future societal impact of computing.

Students practice problem-solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Problems aim for ground-level entry with no ceiling so that all students can successfully engage the problems. Students with greater motivation, ability, or background knowledge will be challenged to work further.

Fees: $20.00

Prerequisite: Students may benefit from having previously taken IED or POE
PLTW – Environmental Sustainability (Biological and Chemical Engineering) is a hands-on activity and project-based course in which students investigate and design solutions to solve real world challenges related to global food security, renewable energy, and water purification. Students will apply their knowledge and skills as they use an engineering design process to design and test solutions that help solve these global challenges. The growing market for jobs in biological engineering is playing a central role in energy and agricultural sustainability solutions. ES develops students’ thinking skills and prepares them for emerging careers through topics such as genetic engineering, biofuels, and biomanufacturing.

Note: Upon successful completion of this course, students can earn 3 undergraduate credits from a PLTW affiliate university. Students will also receive a science equivalency credit upon successful completion of this course.

Fee: $20.00

Prerequisite: Biology/Honors Biology; Previous PLTW experience is recommended but not necessary.
The following list of courses and their descriptions are provided to aid the student in selecting an appropriate science curriculum. The curriculum must satisfy two purposes. The student must first satisfy graduation requirements. The second purpose is to provide the student with the opportunity to achieve a science background that will insure success in future career endeavors.

Students must earn three credits of science in order to meet graduation requirements. For all students, one of the credit(s) must be earned through completion of Biology or Honors Biology. The other credits may be earned by taking any other elective course listed on the following pages.

Students who are anticipating a career involving science concepts are encouraged to select a sequential three or four-year program that will insure an opportunity to pursue that career. Advanced courses in biology, chemistry, and other fields are available, and require the student to carefully schedule his/her science courses. In many instances, this will involve the development of priorities or scheduling two elective courses in the same year. It is suggested that you seek assistance from your school counselor in selecting your science curriculum.

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<th>9th Grade</th>
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<td>Path 1</td>
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<tr>
<td>Physical Science</td>
<td>Biology</td>
<td>Chemistry</td>
<td>Anatomy &amp; Physiology</td>
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<td>AP Biology</td>
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<td>Environmental Science</td>
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<td>Earth &amp; Space Science</td>
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<td>PLTW - Environmental Sustainability</td>
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<td>Path 2</td>
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<td>Biology</td>
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<td>PLTW - Environmental Sustainability</td>
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<td>Path 3</td>
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<tr>
<td>Honors Biology</td>
<td>Chemistry</td>
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<td>PLTW - Environmental Sustainability</td>
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Students who are interested in engineering or medical careers can augment their science curriculum with the following courses:

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<tr>
<th>9th Grade</th>
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<th>11th Grade</th>
<th>12th Grade</th>
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</thead>
<tbody>
<tr>
<td>Project Lead the Way Pathway</td>
<td>Introduction to Engineering (TE151/152)</td>
<td>Principles of Engineering – (TE251/252)</td>
<td>Environmental Sustainability</td>
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<td>Civil Engineering &amp; Architecture (TE351/352)</td>
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<td>Digital Electronics (TE353/354)</td>
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<td>AP Computer Science Principles (TE355/356)</td>
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~Students will receive a science equivalency credit for successful completion of this course.
<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Year</th>
<th>Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICAL SCIENCE</td>
<td>SC101/102</td>
<td>1</td>
<td>9</td>
<td>Physical Science is a course that emphasizes principles of both physics and chemistry. Physics topics include forces, motion, work, magnetism, waves, energy, temperature and heat. Chemistry topics include properties of atoms, radiation, chemical bonds and chemical reactions. This course is a very important starting point for beginning high school science students in that it readies them for future content as well as the expectations and procedures involved in a high school lab science course.</td>
</tr>
<tr>
<td>HONORS BIOLOGY</td>
<td>SC201H/202H</td>
<td>1</td>
<td>9</td>
<td>The Honors Biology course covers the same topics and has major objectives similar to the regular Biology course. This course is designed to be more stringent especially regarding reading and research requirements. Successful completion of this course will provide a science credit for graduation. To continue in the Honors Science curriculum, students are expected to maintain a minimum grade of B- in 1st semester Honors Biology.</td>
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<tr>
<td>BIOLOGY</td>
<td>SC201/202</td>
<td>1</td>
<td>9, 10</td>
<td>The intent of the Biology course is to provide the student with a study of living structures and their relationship to man and his environment. Six biological themes are considered in the year long course. The themes are: 1. Unity and Diversity 2. Structure and Function of Cells 3. Genetic Continuity 4. Evolution: Change through Time 5. Life Processes: Regulation and Homeostasis 6. Organisms and Their Environment</td>
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<tr>
<td>CHEMISTRY</td>
<td>SC301/302</td>
<td>1</td>
<td>10, 11, 12</td>
<td>Chemistry is a science course dealing with the elements, compounds, and mixtures that make up our environment and the physical and chemical changes that take place between these substances. Students will learn the language of chemistry and its applications, along with the development of problem-solving skills. Laboratory instruction is also a strong component of the course. Students will be involved with hands-on experiences that illustrate and reinforce most of the chemistry concepts introduced in the classroom. This course will also contribute to the development of the student’s abilities to think clearly and to express his/her ideas, orally and in writing, with clarity and logic. Proficiency in math and a minimum GPA of 2.0 is strongly recommended.</td>
</tr>
</tbody>
</table>

Fees: None
Prerequisite: None
HONORS CHEMISTRY  SC301H/302H
Year - 1 Credit – 10

Honors Chemistry is a quantitative, in-depth course designed for college-bound students, especially those considering a science-related major. It is highly recommended that students who enroll in this course take AP Chemistry their Junior or Senior year. Students do not have to be enrolled in Honors Biology in order to enroll in Honors Chemistry. Students in Honors Chemistry will study the theories and mathematical models used to understand the properties of matter and the principals of chemical reactions. Treatment of the content will be more mathematically rigorous than Chemistry. Students will have the opportunity to design original experiments to test and exemplify chemical principles. Although teacher demonstration is a part of the course, a greater emphasis will be placed on student inquiry and the ability to write scientifically. Topics covered are similar to those covered in Chemistry.

To continue in the Honors Science curriculum, students are expected to maintain a minimum grade of B- in 1st semester Honors Chemistry.

Fees: None

Prerequisite: Concurrent enrollment in Geometry or Honors Geometry

ENVIRONMENTAL SCIENCE  SC305/306
Year - 1 Credit – 11, 12

Environmental Science is designed to provide students with the scientific principles and methodologies required to understand the interrelationships of the natural world and apply that understanding to environmental issues and problems relating to sustainability in today’s society. Topics will include ecology as well as economics, sociology, and government. Students will directly assess environmental quality through the use of water quality testing and research using the ponds and facilities on Germantown High School grounds.

In addition, students will have the option of taking the AP Environmental Science exam. Instructors will bridge the gap with students in order to be successful in taking the exam. Practice exams, websites and other readings will be provided to interested students.

Fees: None

Prerequisite: Biology

HUMAN ANATOMY & PHYSIOLOGY  SC323/324
Year - 1 Credit – 11, 12

Anatomy and Physiology is a rigorous college preparatory course recommended for those students interested in pursuing a career in biology or health sciences. Students taking this course will develop the ability to use anatomical language while studying various body systems. Students will need a strong work ethic and the ability to memorize concrete information. Students should also be comfortable in a lab setting as there are several dissections involved.

Fees: Cost of trip to Marquette’s Gross Anatomy Lab

Prerequisite: “C” or better in Biology; Chemistry (not concurrently)
ADVANCED PLACEMENT BIOLOGY
Year - 1 Credit – 11, 12

Advanced Placement Biology is a challenging, fast-paced, college-level biology course. This is a second-year biology course that expands on biology concepts learned in the first-year biology course. The course is for self-directed students who have excellent backgrounds in both their biology and chemistry classes. The course will cover the following biology topics: molecular and cellular biology, bioenergetics, Mendelian and molecular genetics, evolution, domain diversity, and ecological behavior. AP Biology has a strong laboratory emphasis and provides students with the conceptual framework, factual knowledge and analytical skills required to pass the AP exam given in May. Successful performance on the test may lead to college credit at accepting institutions. This course will provide an excellent background for those who plan to take a first-year biology course at college.

Fees: None

Prerequisite: Completion of both Biology and Chemistry with a B or better in both courses and teacher recommendation. Students will be issued an AP Biology textbook and given a multi-chapter summer assignment prior to the start of classes.

PHYSICS
Year - 1 Credit – 11, 12

Physics is the science that describes the fundamental nature of the universe and how it works. In this course, types of motion such as linear, projectile, circular and simple harmonic are studied. Motion is characterized in terms of position, velocity, acceleration, force, momentum, and energy. Light is examined in terms of reflection from plane and curved mirrors and in refraction through transparent substances. Physics is basic to understanding the complexity of nature. A basic knowledge of math including algebra, geometry, and trigonometry is expected.

Fees: None

Prerequisite: Completion of Advanced Algebra

EARTH AND SPACE SCIENCE
Year - 1 Credit – 11, 12

Earth and Space Science is the study of the Earth, its place in the universe and the geologic processes that shape the surface. Earth science is divided into three major units consisting of Astronomy, Geology and Meteorology. Students will study the composition of our solar system and universe while also studying the processes that shape the surface of our earth such as volcanoes, earthquakes, and plate tectonics. Students will also have an opportunity to investigate the science of meteorology and weather phenomena such as hurricanes, tornadoes and thunderstorms.

Fueled by new technologies over the past 40 years, advances in Earth and Space Science are revolutionizing our understanding of Earth’s systems and processes. This growing understanding is increasingly needed for students to make informed political and economic decisions of local, national and global impact. Lab activities and computer applications are integrated throughout this course.

Fees: None

Prerequisite: Physical Science and Biology or Honors Biology and Honors Chemistry
SCIENCE

PLTW – ENVIRONMENTAL SUSTAINABILITY
Year - 1 Credit - 11, 12

PLTW – Environmental Sustainability (Biological and Chemical Engineering) is a hands-on activity and project-based course in which students investigate and design solutions to solve real world challenges related to global food security, renewable energy, and water purification. Students will apply their knowledge and skills as they use an engineering design process to design and test solutions that help solve these global challenges. The growing market for jobs in biological engineering is playing a central role in energy and agricultural sustainability solutions. ES develops students’ thinking skills and prepares them for emerging careers through topics such as genetic engineering, biofuels, and biomanufacturing.

Note: Upon successful completion of this course, students can earn 3 undergraduate credits from a PLTW affiliate university. Students will also receive a science equivalency credit upon successful completion of this course.

Fee: $20.00

Prerequisite: Biology/Honors Biology; Previous PLTW experience is recommended but not necessary.

ADVANCED PLACEMENT CHEMISTRY
SC371/SC372
Year – 1 Credit – 11, 12

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. For most students, the successful completion of the AP course enables them to undertake, as a college freshman, second year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. This course is structured around six big ideas as provided by the College Board: structure of matter, properties of matter – characteristics, states, and forces of attraction, chemical reactions, rates of chemical reactions, thermodynamics and equilibrium. AP Chemistry is open to all students that have successfully completed a year of chemistry (General or Honors Chemistry) who wish to take part in a rigorous and academically challenging course.

Fee: $30.00

Prerequisite: Successful completion (B or higher) in General Chemistry or Honors Chemistry, successful completion (B or higher) in Advanced Algebra, and teacher recommendation. Students will be issued an Textbook and be given summer assignments prior to the classes starting in fall.
ADVANCED PLACEMENT PHYSICS 1  SC373/374
Year – 1 Credit – 11, 12

AP Physics 1 is a rigorous, algebra-based, introductory college-level course that successfully prepares one for a first semester algebra college physics course. This course requires one to use a number of physics “tools” to analyze physical phenomena. There is a conceptual emphasis to justify understanding as opposed to “number crunching” answers. The topics for this course include the following: Newtonian mechanics including rotational motion, work, energy, power; mechanical waves and sound; and introductory simple circuits. This course includes hands-on laboratory work with emphasis on inquiry-based investigations that provide students with opportunities to develop critical thinking and reasoning skills. Inquiry investigations will require students to ask questions, make observations and predictions, design experiments, analyze data, and construct arguments in a collaborative setting. AP Physics 1 provides students with the conceptual framework, factual knowledge and analytical skills required to pass the AP exam given in May. Successful performance on the exam may lead to college credit at accepting institutions.

Fee: $20.00

Prerequisites: Teacher recommendation is required. Some students may want to take regular Physics first, in order to gain background knowledge of the subject so that the transition to AP Physics is easier. No prior background in regular Physics is required if you are highly motivated to learn, and if you have taken Advanced Algebra with a B or better. Students will be issued a textbook and given summer assignments prior to the class starting in fall. Please talk with the AP Physics 1 teacher with any questions you may have.

YOUTH APPRENTICESHIP 1/2
Year – 1 Credit – 11, 12

There are potential Youth Apprenticeship opportunities across all career pathways. Students interested in meaningful work experience that will help them determine their post-high school education/training should speak with their school counselor. Further information on Youth Apprenticeships can also be found on pages 14-15 of this course guide book or online at https://dwd.wisconsin.gov/youthapprenticeship/. Students who sign up for Youth Apprenticeship will be contacted in January by the School Counseling Office to determine proper placement.
Three credits in Social Studies courses are required for graduation. The three credits include successfully completing American History (one credit) and World History (one credit). The remaining credit can be earned through any of the elective Social Studies classes.

**AMERICAN HISTORY**

**SS101/102**

Women’s Experience, Media, America on the World Stage, America’s Future, and the Changing American Economy.

**Fees:** None

**Prerequisite:** None
HONORS AMERICAN HISTORY          SS101H/102H
Year - 1 Credit – 9

A chronological, accelerated approach to American History from Western settlement to 9/11. This course meets the needs of the gifted or independent learner. Emphasis is placed on historical research, primary and secondary source analysis and interpretation via in-depth investigations of major historical events. Participation and submission of a project for National History Day is required. Focus on college and career-ready skills and “Thinking Like a Historian” curriculum. Exemption offered second semester.

To continue in the Honors Social Studies curriculum, students are expected to maintain a minimum grade of B- in each semester of Honors American History.

Fees: None

Prerequisite: Multiple criteria including middle school grades, previous courses taken, and state and local testing results

ADVANCED PLACEMENT
HUMAN GEOGRAPHY          SS111/112
Year – 1 Credit – 9, 10, 11, 12

Advanced Placement Human Geography (APHuG) is a one-year course designed as an equivalent to a college level introductory Human or Cultural Geography class. Upon completion of the course, the student may opt to take an AP exam through which he/she may obtain college credit. Students will become more geoliterate, more engaged in contemporary global issues, and more multicultural in their viewpoints. Content is presented thematically, and organized around the discipline’s main subfields: economic, cultural, political and urban geography. The approach is spatial and problem orientated. Case studies are drawn from all world regions with an emphasis for understanding the world in which we live today. Specific topics include:

- Problems of economic development and cultural change
- Consequences of population growth, changing fertility rates, and migration
- Impact of technological innovation on transportation, communication, and industrialization
- Struggle over political power and control of territory
- Demands of ethnic minorities and the role of women in society
- Inequalities between developed and developing countries
- Why location matters to agricultural land use, industrial development, and urban problems
- Role of climate change and environmental abuses in shaping the human landscape
- What is Where, Why There, and Why Care?

Note: AP Human Geography does not fulfill the district requirement of one (1) credit of American History.

Fees: None

Prerequisite: Department approval and ability to read college level texts, summarize and evaluate textual information, interpret maps and graphic data, and perform basic mathematical operations. Possible Pre-AP summer institute for incoming 9th grade students and/or required summer assignments.

WORLD HISTORY          SS201/202
Year - 1 Credit - 10

World History is a year course covering the time period from Ancient Greece to modern times. Some topics covered are: Ancient Civilizations, Middle Ages, Renaissance, Reformation, Global Age, Enlightenment, French and Industrial Revolution, Nationalism, Imperialism, 19th and 20th Century Revolutions, World Wars, and the Modern World since 1945.

Fees: None

Prerequisite: None, American History strongly recommended
SOCIAL STUDIES

HONORS WORLD HISTORY SS201H/202H
Year - 1 Credit – 10

Honors World History provides a year-long, survey course intended for the high school sophomore who wishes to pursue a more rigorous curriculum than regular World History. Course content focuses on a western civilization format starting with the development of ancient Greece and Rome and ending with World War II. Emphasis will be placed not only on learning historical content but also on critical thinking, historical writing, and creative expression.

To continue in the Honors Social Studies curriculum, students are expected to maintain a minimum grade of B- in 1st semester of Honors World History.

Fees: None
Prerequisite: Sophomore standing and a minimum semester grade of B- in all prior honors courses. Students who do not meet this requirement can still tentatively enroll in the course through instructor recommendation, appropriate test scores, history of high academic achievement in the area of Social Studies.

ADVANCED PLACEMENT EUROPEAN HISTORY SS251/252
Year – 1 Credit – 10, 11, 12

The study of European History since 1450 introduces students to cultural, economic, political and social developments that played a fundamental role in shaping the world in which they live. In addition to providing an understanding of some of the principle themes in modern European history, the course will place an emphasis on historical thinking skills, and historical writing. The Advanced Placement program in European History is designed for college bound sophomores, juniors and seniors. Students enrolled in the course have the opportunity to take the Advanced Placement examination in May in which they may earn college credit.

Fees: None
Prerequisite: Department approval

CONSUMER EDUCATION SS301
Semester - ½ Credit – 10, 11, 12

The purpose of this course is to give the student an understanding of our economic system and his/her role as a consumer. The goal of the course is to enable the student to make wise decisions in such areas as: buying an automobile, managing money, using credit, filing an income tax return, evaluating advertising, and the purchase of other goods and services.

Fees: None
Prerequisite: None

INTRODUCTION TO ECONOMICS SS305
Semester - ½ Credit - 11, 12

This course introduces students to fundamental economic concepts and prepares them for entry into a related college program. Topics covered include microeconomic principles of supply, demand, prices and markets; economic institutions such as the labor market, and government taxation and spending; macroeconomic principles of GDP, the business cycle, and monetary and fiscal policy; and international economics including foreign trade and globalization. Students will apply information to current global economic situations. Taking this class as a junior does not preclude you from taking AP Economics senior year.

Fees: None
Prerequisite: None

LAW AND YOU SS311
Semester - ½ Credit - 11, 12

Law and You investigates the benefits and shortcomings of our American justice system. Current events and student perspectives help to determine units of study, which may vary from one semester to the next. Topics typically covered include forensics, criminal law, crime theories and trends, student and citizen rights, philosophies of punishment, wrongful imprisonment, juvenile justice, and the death penalty.

Fees: None
Prerequisite: None
<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits</th>
<th>Year</th>
<th>Prerequisite</th>
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</thead>
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<tr>
<td><strong>INTRODUCTION TO POLITICAL SCIENCE</strong></td>
<td>SS315</td>
<td>½</td>
<td>11, 12</td>
<td>None</td>
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<tr>
<td><strong>SOCIAL PROBLEMS</strong></td>
<td>SS325</td>
<td>½</td>
<td>11, 12</td>
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<td><strong>PSYCHOLOGY</strong></td>
<td>SS321/322</td>
<td>1</td>
<td>11, 12</td>
<td>None</td>
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<td><strong>SOCIAL STUDIES</strong></td>
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<tr>
<td><strong>TWENTIETH CENTURY AMERICAN CULTURE</strong></td>
<td>SS331</td>
<td></td>
<td>10, 11, 12</td>
<td>None</td>
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</tbody>
</table>

The goal of this course is to provide students with the opportunity to critically and fairly evaluate politics in the United States. Discussion and debate will encourage students to develop their beliefs on many controversial political issues: campaigns and financing, candidate debates, advertising, the election process, strengths and weaknesses of American democracy, the role of political parties, and cooperative/combative politics. Students will gain skills necessary to become active citizens and drive positive change within our government.

Fees: None

Prerequisite: None

Psychology is a one year course covering human behavior. Topics covered include: statistics, development, illusions, the brain, learning, intelligence, personality, emotions, normal and abnormal behavior, and social psychology. Students taking Psychology may not take Advanced Placement Psychology.

Fees: None

Prerequisite: None

Twentieth Century American Culture is a one-semester survey course on American social and cultural history, decade by decade, from 1950-2000. Knowledge of major historical events provide the framework for students to trace a topic of interest throughout the semester and analyze the changes and impact on American life. Topics of emphasis include: art and architecture, entertainment, fads and foods, fashion, literature, scandals, science and technology, sports, and transportation. Submission of a final project in lieu of a traditional assessment; exemption offered.

Fees: None

Prerequisite: None
ADVANCED PLACEMENT PSYCHOLOGY  SS351/352
Year - 1 Credit - 11, 12

Advanced Placement Psychology is a one year course designed as an equivalent to a college level introductory psychology class. At the completion of the class, the student may opt to take an Advanced Placement exam through which he/she may obtain college credit. Topics covered include: psychological methods, human development, states of consciousness, biological psychology, learning, intelligence, personality and abnormal behavior. Students taking Advanced Placement Psychology may not take Psychology.

Due to space limitations, some students may be removed from AP Psychology and given the option of either taking Psycology or delaying AP Psychology until senior year. Criteria used include: AP European History, honors Social Studies classes taken, grade point average, and teacher recommendations. For more information, contact the GHS Social Studies Department.

Fees: None

Prerequisite: Department approval and junior or senior standing

ADVANCED PLACEMENT ECONOMICS (MACRO/MICRO)  SS355/SS356
Year - 1 Credit - 11, 12

This course is designed for students who are interested in understanding the principles of both microeconomics and macroeconomics, and have strong analytical and mathematical skills, with a track record of success in courses like Advanced Algebra or Pre-Calculus. Content is similar to college freshman courses on economics, and its fast-paced nature requires students to remain focused and self-directed. In the first half of the course, students will learn the functions of individual decision makers, both consumers and producers, within the economic system. Emphasis is placed on the nature and functions of the product market (supply and demand), and includes the study of factor markets and the role of the government in the economy. In the second half of the course, students will learn about the economic system as a whole, including national income and price-level determination, economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. At the completion of the class, students may opt to take up to two Advanced Placement exams: Microeconomics and Macroeconomics. Each exam may earn the student college credit. A separate fee is assessed for each exam.

Fees: $20.00

Prerequisite: Junior or Senior standing, a track record of success in social studies and mathematics courses, and positive recommendation from a social studies teacher
SOCIOLOGY
SS401
Semester - ½ Credit - 12
Sociology is the study of human social relationships. The course looks to discover regularities in human behavior by examining the properties of groups within the larger society. Sociology provides an increased awareness of the connection between social and cultural issues and their influence on people’s daily lives. Sociology will cover topics in the larger, social world that help to make us who we are and affect how we behave. These topics include culture, socialization, group dynamics and collective behavior, marriage and family, and race and ethnicity.

Fees: None
Prerequisite: None

HUMAN RELATIONS
SS403
Semester - ½ Credit - 12
Human Relations is a senior only one semester course, offered semester I or semester II, that covers very important issues facing young adults today. Throughout this course students will learn about and discuss how to make wise and informed decisions regarding relationships, healthy eating habits, addictions, developing healthy self-esteem and how to be successful in school, a career and in life. Units are presented with the importance of knowing one’s options and consequences before making decisions. Topics that are covered in this course include school and future success, careers, peer and parental relationships, bullying, dating, components of healthy relationships vs. dysfunctional relationships, drug use and addictions, nutrition and eating disorders, depression and suicide and improving one’s self image and confidence. Units in this course are designed and presented with the intention of helping seniors become more aware of situations that may occur in their future. Students will have the opportunity to learn the materials through lectures, readings, audio-visual materials, computer research, guest speakers, group work and individual assignments and projects.

Fees: None
Prerequisite: None

ADVANCED PLACEMENT
UNITED STATES HISTORY
SS451/452
Year - 1 Credit - 11, 12
The Advanced Placement program in American History is designed for juniors and seniors who desire a course equivalent to a full-year introductory college course. At the completion of the class, the student may opt to take an Advanced Placement exam through which he/she may obtain up to six college credits. This course is intended to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials, their relevance to a given interpretive problem, their reliability, their importance, and to weigh the evidence and interpretations presented in historical scholarship. The student should be able to develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present ideas clearly and persuasively in an essay format.

Fees: None
Prerequisite: Departmental approval and junior or senior standing
**TEACHER’S AIDE**

**TEACHER’S AIDE**  
Z305/306  
½ Credit per Semester – 12

This program provides an opportunity for seniors to assist classroom teachers in their everyday activities. Some of the typical duties may include: assisting teachers in the delivery of individual instruction/tutoring, organize classroom materials, and perform various clerical duties. Any student desiring to be a teacher aide must see Mr. Benz before scheduling this course. Students are required to sign a contract and have approval of the teacher, parent/guardian, and principal. The grade for a teacher aide will be pass/fail.

**Fees:** None

**Prerequisite:** Must have a good attendance and conduct record.

**INTEGRATED LEARNING CENTER**  
Z309/310  
**TEACHER’S AIDE**  
½ Credit per Semester – 12

Integrated Learning Center (ILC) Teacher’s Aides will have the opportunity to assist academically struggling students by offering academic help and organization support. More specifically, TAs will tutor students, particularly in math and English, check assignment notebooks, and help students with their writing. TAs may also assist Ms. Gliniecki with organizing classroom materials and performing clerical duties. Interested students must complete an application. Students who have intentions of going into the field of education are encouraged to apply. For more information about the program, see Ms. Gliniecki in Room 151 or speak to your school counselor. The grade for an ILC Teacher’s Aide will be pass/fail.

**Fees:** None

**Prerequisite:** Must have a cumulative G.P.A. of 3.0 in content area and a good attendance and conduct record.

**ELEMENTARY TEACHER’S AIDE**  
Z307/308  
½ Credit per Semester – 12

Students who have serious intentions of going into the field of education and/or are considering a career working with children can request to be assigned to one of our elementary schools and work under the direct supervision of an elementary school teacher. Students will assist in the classroom with instruction, remediation, and perform various classroom related clerical duties on a daily basis. This TA option is great way to explore if you have what it takes to work with young children in an educational setting. Any student desiring to be a teacher aide must see Mr. Benz before scheduling this course. Students are required to sign a contract and have approval of the teacher, parent/guardian, and principal. The grade for a teacher aide will be pass/fail.

**Fees:** None

**Prerequisite:** Must have a good attendance and conduct record.

**INTEGRATED LEARNING CENTER**  
Z309/310  
**TEACHER’S AIDE**  
½ Credit per Semester – 12

Integrated Learning Center (ILC) Teacher’s Aides will have the opportunity to assist academically struggling students by offering academic help and organization support. More specifically, TAs will tutor students, particularly in math and English, check assignment notebooks, and help students with their writing. TAs may also assist Ms. Gliniecki with organizing classroom materials and performing clerical duties. Interested students must complete an application. Students who have intentions of going into the field of education are encouraged to apply. For more information about the program, see Ms. Gliniecki in Room 151 or speak to your school counselor. The grade for an ILC Teacher’s Aide will be pass/fail.

**Fees:** None

**Prerequisite:** Must have a cumulative G.P.A. of 3.0 in content area and a good attendance and conduct record.

**SPECIAL EDUCATION PEER COACH**  
Z311/312  
½ Credit per Semester – 11, 12

Special Education Peer Coaches will have the opportunity to assist students with developmental or intellectual disabilities as they learn academic, communication and social skills. More specifically, under the direction of special education teachers, they will model examples of targeted academic, social and communication skills as well as assist students in demonstrating those skills within one of their classes. Students thinking about going into the education field will also have the option to help write lesson plans for targeted social communication skills. Students who have intentions of going into the field of education or are considering a career working in healthcare are encouraged to register. For more information about the program, see Mrs. Densing in room 309A.

**Fees:** None

**Prerequisite:** Must have a good attendance and conduct record.
TECHNOLOGY & ENGINEERING

The Germantown School District is committed to a School-to-Work philosophy which prepares students for the world of work through partnerships with the business and education communities. This commitment will ensure that students will become successful participants in an ever-changing global workforce.

The grades 6-12 Technology and Engineering Program, including the components of Communications, Transportation, Construction, and Manufacturing and Engineering, and will be delivered through an integrated curriculum with real-life applications.

Technology Education Beliefs
We believe:
- students will recognize the value of an appropriate work ethic and model it.
- staff development is necessary for applying current technologies.
- technology education should be integrated into all curriculum and applied to “real world” situations.
- students will be prepared for an ever-changing competitive global work place and the world of technology.
- all students should be exposed to non-traditional careers.
- there is value in further development of partnerships with other educational and business organization.
- expanded career guidance will benefit both student and families.

Technology Education Program Core Standards
- Students will develop an appropriate work ethic and model it.
- Students will apply learning through simulated and real-life applications.
- Students will link the knowledge and skills of technology education in all instructional areas.
- Students will develop and link the knowledge and skills of engineering, production, and design in technology education to the work place.
- Students will develop an appreciation of an ever-changing workplace and understand the relationship of technology education to that workplace.
- Students will develop an awareness of traditional and non-traditional careers by taking an active role in exploring career pathways which lead to future employment.

Technology Education Program Organizers
- Manufacturing/Production
- Construction
- Communication
- Transportation/Power
- Engineering

Project Lead the Way Curriculum

<table>
<thead>
<tr>
<th>9th Grade</th>
<th>10th Grade, 11th Grade, 12th Grade</th>
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<tbody>
<tr>
<td>Project Lead the Way Pathway</td>
<td>Introduction to Engineering *</td>
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* Students can receive 3 college credits (electives) upon successful completion of this course.
~ Students will receive a science equivalency credit for successful completion of this course.
INTRODUCTION TO WOODWORKING

Semester - ½ Credit - 9, 10, 11, 12

Students enrolled in this course will learn how to safely and properly operate the machinery used in production and custom cabinetry shops. Using woodworking materials, equipment, and techniques, students will learn the steps needed to produce cabinetry. From blueprints to a finished product, the students engage in every step of the process. Project materials may range in cost from $60.00 to $90.00. Actual cost depends upon wood and other individual choices. Hardware such as drawer slides, hinges, and knobs need to be purchased by the student during the later part of the class.

Fees: $10.00 plus cost of materials

Prerequisite: None

ARCHITECTURAL DRAFTING

Semester – ½ Credit - 9, 10, 11, 12

Architectural Drafting and Design is a comprehensive look at the field of Architecture. This class will feature: career exploration, architectural styles and types, Perspective Hand Drawing, two- and three-dimensional architectural plans, and introduction to architectural codes and zoning codes. This class will take the students from the beginning phases all the way to rendering of the final product. This class is for anyone who wants to learn about the designing of residential buildings, especially those who want to pursue a career in Architectural Drafting, Architectural Engineering, Civil Engineering, Surveying, Interior Design and more.

Fees: $5.00

Prerequisite: None

INTRODUCTION TO CAD

Semester – ½ Credit - 9, 10, 11, 12

Introduction to Computer Aided Design is a comprehensive look at the field of Mechanical Drafting. This class will comprise of multiple two- and three-dimensional drawings of real life and fictional industrial parts. All of these parts will give the student the necessary skills to move on to the large drafting projects, like the Wobbler air engine, which will test students’ skills. This class will take the student from the beginning phases being creation and initial sketches, through design and drafting of the parts, all the way to the final product which is rendering and presentation. During the last weeks of class, students will dive into Computer Controlled Machining Programming (G and M codes). This class is for anyone who wants to learn about mechanical design, especially those who are considering a career in Mechanical Drafting, Mechanical Engineering, Mold Design, Tool Making and Design, and more.

Fees: $20.00

Prerequisite: None

ENERGY, POWER AND TRANSPORTATION

Semester - ½ Credit - 9, 10, 11, 12

This course will focus on the study of energy, power and transportation. Students will investigate how power is transferred to set our world in motion. Through classroom and laboratory experiences students will discover how energy is generated, transferred and used. Students will also study transportation methods and their impact on daily life. Finally, students learn about the internal combustion engine. Topics of study will include: hydraulics and pneumatics, transportation methods, and small engines. As a result of taking this course students will develop problem solving skills, become better consumers, be familiar with cutting edge fuel sources, have the ability to diagnose and fix basic small engine problems, and approach our every changing world with a different perspective.

Fees: $20.00

Prerequisite: None
MANUFACTURING

Semester - ½ Credit - 9, 10, 11, 12

Cell phones, toothbrushes, potato chips, and cars all have one thing in common—they are manufactured. This semester long course is designed to give students insights into the dynamic processes used in manufacturing products every day. A great deal of emphasis will be given to metalworking processes. Students will create projects using Milling Machines, Lathes, and Computer Numerically Controlled (CNC) machines. Furthermore, students will have an opportunity to explore basic welding techniques and sheet metal fabrication. Upon completion of this course students will have a very broad understanding of manufacturing processes and will be prepared to further study the exciting field of manufacturing in subsequent courses.

Fees: $10.00

Prerequisite: None

PLTW-IED – INTRODUCTION TO ENGINEERING DESIGN

Year – 1 Credit – 9, 10, 11, 12

This course emphasizes the engineering process and development of a design. Students use computer software to produce, analyze and evaluate models of project solutions. They study the design concepts of form and function, and then use state of the art technology to translate conceptual design into reproducible products. This course teaches students to:

- Understand and apply the design process to solve various problems in a team setting;
- Apply adaptive design concepts in developing sketches, features, parts and assemblies;
- Interpret their own sketches in using computer software to design models;
- Understand mass property calculations such as volume, density, mass, surface area, moment of inertia, product of inertia, radii of gyration, principal axis and principle moments and how they are used to evaluate a parametric model;
- Understand cost analysis, quality control, staffing needs, packing and product marketing;
- Explore career opportunities in design engineering and understand what skills and education these jobs require; and
- Develop portfolios to display their designs and present them properly to peers, instructors and professionals.

Note: Upon successful completion of this course, students can earn 3 undergraduate credits from a PLTW affiliate university.

Fees: $20.00

Prerequisite: None
CONSUMER AUTO  TE199
Semester - ½ Credit - 10, 11, 12

Consumer Auto is intended for all students, female and male, that may not typically take an automotive course. As a result of taking this course students will become better automotive consumers, capable of light maintenance. The content of the course will be delivered in an easy to comprehend manner with both lab and classroom activities. Topics of study will include proper procedure on: changing a flat tire, buying a car, jumping a dead battery, oil changes, acquiring car insurance, and more.

Fees: $5.00
Prerequisite: None

WOODWORKING DESIGN & TECHNIQUES  TE201/202
Year - 1 Credit - 10, 11, 12

This course provides an opportunity for students to creatively plan, design, and follow through with the construction of a project in wood. Emphasis is placed on planning and design concepts followed by applying advanced woodworking techniques in project construction. Students are required to meet specific criteria in their plan which is established by the instructor.

Fees: $30.00 plus cost of materials
Prerequisite: Introduction to Woodworking

AUTOMOTIVE TECHNOLOGY  TE221/222
Year - 1 Credit - 10, 11, 12

This course will be conducted like a business, focusing on vehicle systems, careers, basic hand tools, equipment, shop safety, precision measurement / math, vehicle maintenance, and engine fundamentals. Students will learn through a variety of work including but not limited to: written assignments, discussions, and assessments along with hands-on lab activities. Through the use of professional equipment students will become acclimated with safe practice of skilled routine service and maintenance of automobiles. Course activities will include oil changes, coolant flushes, tire rotation and balancing, exhaust maintenance and repair, and many other automotive activities.

Fees: $20.00
Prerequisite: None

METAL FABRICATION  TE231
Semester – ½ Credit - 10, 11, 12

Building on the knowledge and skills gained in Manufacturing, students will study measurement, bending, forming, shearing, quality control, and cutting processes while creating projects with sheet metal, rolled steel, and other metals. Students will learn about resistance welding, MIG welding, and Stick Welding, as well as plasma cutting. This course is appropriate for students interested in press operation, art, welding, engineering, industrial technology, mechanical design and similar areas of study.

Fees: $20.00
Prerequisite: Manufacturing
| Course: MACHINE TOOL TECHNOLOGY 1 | TE235  
Semester – ½ Credit - 10, 11, 12  
A follow-up to Manufacturing, this course will focus on improving students’ knowledge and skill related to common metalworking machines such as the metalworking lathe, milling machine, band saws, grinders, etc. Students will study measurement, quality, blueprint reading, safety, basic metallurgy and material science; all while completing challenging projects. This course is appropriate for students interested in studying Tool & Die, Engineering, Mechanical Design, Machining, Industrial Technology, Manufacturing Management and similar professions.  
Fees: $10.00  
Prerequisite: Manufacturing |
|-------------------|------------------------
| Course: MACHINE TOOL TECHNOLOGY 2 | TE236  
Semester – ½ Credit - 10, 11, 12  
A continuation of Machine Tool Technology 1, this course is focused on increasing students’ knowledge and skill related to common metalworking machines such as the metalworking lathe, milling machine, band saws, grinders, etc. Students will study measurement, quality, blueprint reading, safety, basic metallurgy and material science; all while completing challenging projects. This course is appropriate for students interested in studying Tool & Die, Engineering, Mechanical Design, Machining, Industrial Technology, Manufacturing Management and similar professions.  
Fees: $10.00  
Prerequisite: Machine Tool Technology 1 |
|-------------------|------------------------
| Course: BASIC WELDING | TE241  
Semester – ½ Credit - 10, 11, 12  
From aerospace to medical devices to mining and HVAC, many industries rely on people who possess skills and knowledge related to welding. Having had an introduction to basic welding in Manufacturing, this course is for students who are interested in learning more advanced welding techniques. Students will study advanced techniques in MIG and Stick welding. They will also be introduced to Oxy-fuel welding processes as well as plasma and oxy-fuel cutting procedures. This course is appropriate for students interested in welding, engineering, industrial technology, mechanical design, art and similar areas of study.  
Fees: $20.00  
Prerequisite: None |
|-------------------|------------------------
| Course: ADVANCED WELDING | TE242  
Semester – ½ Credit - 10, 11, 12  
From aerospace to medical devices to mining and HVAC, many industries rely on people who possess skills and knowledge related to welding. Having had an introduction in Basic Welding, this course is for students who are interested in learning more advanced welding techniques. Students will study advanced techniques in MIG and Stick welding. They will also be introduced to Oxy-fuel and TIG welding processes as well as plasma and oxy-fuel cutting procedures. This course is appropriate for students interested in welding, engineering, industrial technology, mechanical design, art and similar areas of study.  
Fees: $20.00  
Prerequisite: Basic Welding |
TECHNOLOGY & ENGINEERING

PLTW - POE – PRINCIPLES OF ENGINEERING
Year – 1 Credit – 10, 11, 12

This course provides an overview of engineering and engineering technology. Students develop problem-solving skills by tackling real-world engineering problems. Through theory and practical hands-on experiences, students address the emerging social and political consequences of technological change. The course of study includes:

- **Overview and Perspective of Engineering.** Students learn about the types of engineers and their contributions to society.
- **Design Process.** Students learn about problems solving and how products are developed to include how engineers work in teams.
- **Communication and Documentation.** Students collect and categorize data, produce graphic representations, keep and engineer's notebook and make written and oral presentations.
- **Engineering Systems.** Students learn about the mechanical, electrical, fluid and pneumatic and control systems.
- **Statics.** Students learn about measurement, scalars and vectors, equilibrium, structural analysis, and strength of materials.
- **Materials and Materials Testing.** Students learn the categories and properties of materials, how materials are shaped and joined, and material testing.
- **Thermodynamics.** Students will learn about units and forms of energy, energy conversion, cycles, efficiency and energy loss, and conservation techniques.
- **Engineering Quality and Reliability.** Students will use precision measurement tools to gather and apply statistics for quality and process control. Students will also learn about reliability, redundancy, risk analysis, factors of safety, and liability and ethics.
- **Dynamics.** Students will be introduced to linear and trajectory motion.

Note: **Upon successful completion of this course, students can earn 3 undergraduate credits from a PLTW affiliate university.** Students will receive a science equivalency credit upon successful completion of this course.

Fees: $20.00
Prerequisite: Concurrent enrollment in Geometry

ROBOTICS
Year – 1 Credit – 10, 11, 12

Robots! What more do I have to say? Robotics introduces students to the working principles and foundational knowledge of robotics. This course emphasizes hands-on robotics activities with a concentration on STEM (Science, Technology, Engineering and Mathematics) and computer programming for solving problems. Using VEX Robotic Equipment, students will do activities ranging from simple design builds to very complex tasks (Autonomous Robotic Sensor Maze) and design, create, and build an Assembly Line (Automation Project) code named “Hot Dog.” Through these project-based team activities, students develop critical thinking, problem-solving, effective communication, and teamwork skills much needed in today's workforce. In order to be successful in this course, students must have a strong work ethic, can-do attitude, time management skills, eagerness to learn, and ability to work in a team.

Fees: $20.00
Prerequisite: Algebra

BUILDING CONSTRUCTION
Year - 1 Credit - 11, 12

The purpose of this course is to acquaint each student with the world of construction and to begin developing basic associated skills. Activities include building a full scale model while working with materials and tools used in many building trade areas. Students become involved in school or community related building projects such as concrete patios, sheds, and garages. Units of study include: surveying, carpentry, masonry, plumbing, electrical, roofing, and drywall.

Fees: $20.00
Prerequisite: None
AUTOMOTIVE SYSTEMS & DIAGNOSTICS  
TE321/322  
Year - 1 Credit - 11, 12

This course is for students who have completed Automotive Technology and wish to continue their study in this area. Engine construction, engine performance, steering/suspension, using service information, and diagnosing symptoms with up-to-date Computer diagnostic software, are just a few items that will be the covered in this course.

This course is scheduled as a two-period class in one semester to allow for in-depth automotive diagnosis and repairs.

Fees: $20.00

Prerequisite: Automotive Technology

AUTOMATED MACHINING  
TE335  
Semester - ½ Credit - 11, 12

In today’s economy very little is created directly by human power, instead humans use computers to create programs which run machines. That is what this course is all about. Students in this class will learn to speak the language of automation. Students will manually create a CNC program and run that program on a CNC mill. After that, studets will work with Computer Aided Manufacturing software to make parts on the computer and let the software write the code. In this course, students work in conjunction with the Technical Colleges and visit these facilities to use their equipment. Students will receive technical college credit for this course.

Fees: $20.00

Prerequisite: Manufacturing or instructor approval

ADVANCED MACHINE TOOL TECHNOLOGY  
TE36  
Semester – ½ Credit - 11, 12

This course is designed to teach students more complex metalworking techniques and study the intricacies of a manufacturing enterprise. In addition to using metalworking machines, students will work with plastics, design jigs, and master measurement. Other topics of study will include metallurgy, materials and material properties, manufacturing facility design, equipment payback, lean manufacturing, inventory control, robotics and automation, and quality assurance. This course is appropriate for students interested in studying Tool & Die, Engineering, Mechanical Design, Machining, Industrial Technology, Manufacturing Management and similar professions.

Fees: $10.00

Prerequisite: Machine Tool Technology 2
Civil Engineering and Architecture is the study of the design and construction of residential and commercial building projects. The course includes an introduction to many of the varied factors involved in building design and construction including building components and systems, structural design, storm water management, site design, utilities and services, cost estimation, energy efficiency, and careers in the design and construction industry.

The major focus of the CEA course is to expose students to the design and construction of residential and commercial building projects, design teams and teamwork, communication methods, engineering standards, and technical documentations. Utilizing the activity-project-problem-based (APPB) teaching and learning pedagogy, students will analyze, design and build electronic and physical models of residential and commercial facilities. While implementing these designs, students will continually hone their interpersonal skills, creative abilities, and understanding of the design process.

The course of study includes:

- Overview of civil engineering and architecture
  - History of civil engineering and architecture
  - Careers in civil engineering and architecture
- Residential design
  - Building design and construction practices
  - Cost analysis
  - Energy efficiency
  - Storm water analysis
  - Water supply
  - Plumbing
  - Electrical systems
  - Wastewater management
  - Affordable housing design
  - Universal design
- Commercial applications
  - Commercial buildings
  - Structural design
  - Services and utilities
  - Site considerations
- Commercial Building Design
  - Commercial building design project
- Commercial building design presentation

Note: Upon successful completion of this course, students can earn 3 undergraduate credits from a PLTW affiliate university.

Fees: $20.00

Prerequisite: Students may benefit from having previously taken POE or Architectural Drafting/Design

Project Lead the Way Digital Electronics is a course designed as a foundation course for any student wishing to pursue Engineering, Engineering Technology, or any technical occupation. Digital Electronics touches all our lives on a daily basis, it's the basic way nearly all automatic devices are controlled from microwave ovens and watches to calculators, computers, medical equipment, cars, manufacturing systems, the list is endless. It is essential for anyone in a technical field to have a basic understanding of how digital systems, sensors, and controls work. This course is taught in a hands-on manner beginning with basic concepts, circuit design and analysis, testing, and prototype construction. Most activities will involve the presentation of information on new concepts, problem-solving activities using the new concepts, followed by computer simulation and circuit construction (wiring). Some activities will be taken to the printed and soldered circuit board stage.

Topics of study will include:

- Analog and digital fundamentals
- Number systems and binary addition
- Logic gates and functions
- Boolean algebra and circuit design
- Decoders, multiplexers and de-multiplexers

Note: Upon successful completion of this course, students can earn 3 undergraduate credits from a PLTW affiliate university.

Fee: $20.00

Prerequisite: Students may benefit from having previously taken POE
ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES
Year – 1 Credit – 10, 11, 12

Open doors in any career with computer science! Students create apps for mobile devices, automate tasks in a variety of languages, find patterns in data, and interpret simulations. Students collaborate to create and present solutions that can improve people’s lives. How will computing and connectivity transform your world?

Students work in teams to develop computational thinking and problem-solving skills. The course covers the College Board’s new CS Principles framework. The course does not aim to teach mastery of a single programming language, but aims instead to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity. The course also aims to build students’ awareness of the tremendous demand for computer specialists and for professionals in all fields who have computational skills. Each unit focuses on one or more computationally intensive career paths. The course also aims to engage students to consider issues raised by the present and future societal impact of computing.

Students practice problem-solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Problems aim for ground-level entry with no ceiling so that all students can successfully engage the problems. Students with greater motivation, ability, or background knowledge will be challenged to work further.

Fees: $20.00

Prerequisite: Students may benefit from having previously taken IED or POE

YOUTH APPRENTICESHIP 1/2
Year – 1 Credit – 11, 12

There are potential Youth Apprenticeship opportunities across all career pathways. Students interested in meaningful work experience that will help them determine their post-high school education/training should speak with their school counselor. Further information on Youth Apprenticeships can also be found on pages 14-15 of this course guide book or online at https://dwd.wisconsin.gov/youthapprenticeship/. Students who sign up for Youth Apprenticeship will be contacted in January by the School Counseling Office to determine proper placement.
The World Language Department advises that students beginning their study of a foreign language understand that a commitment to daily preparation and oral participation are essential to building a strong foundation for success in the course and for the advancement to the next level. All world languages are difficult to the extent that they all require a commitment to daily study and to the learning of new vocabulary. Basic skills, such as listening, speaking, reading and writing, and cultural content are taught via art, music, magazines, podcasts, poems, short reading selections, texts and videos. In order to continue on to the next semester and each sequential level, it is recommended that the student have at least a “C” average and the approval of the instructor. The prospective language student should avoid making a choice on preconceived notions of difficulty. Instead, students should consider personal interests, ambitions and future career plans.

Student Interest
If a student is interested in taking one particular language, for whatever reason, this choice probably is the best language to pursue. Students who are made to take a language other than their “preferred” language tend to do less well in the language chosen for them.

Career Plans
Both languages are good for the global economy in which we live. For example, Germany and Mexico rank among the top importers of American goods and services. Banking and telecommunications companies are likely to expect prospective employees to understand international affairs. Investment banking and agricultural enterprises often indicate an interest in second-language abilities.
- German is important in engineering, science, art, medicine, and business.
- Spanish is also important for working as a doctor/nurse, bank teller, firefighter, policeman, social worker, factory worker, international business and tourism.

Cultural Heritage
Many students choose a world language based on their ethnic background. Students who live in homes where Spanish or German is spoken, or whose grandparents or other relatives speak another language, should certainly consider studying that language. It must be noted that simply being able to speak or understand Spanish or German does not necessarily mean that one is able to read or write the language.

World Travel
Of course, travel to German- and Spanish-speaking countries is greatly facilitated by knowing the respective languages of these countries. Students have the opportunity to travel to Germany as part of the exchange program. Spanish students have the opportunity to travel to Costa Rica after completion of Spanish 3. Students enrolled in Spanish 1-5 who are also in good academic standing are eligible to travel with GHS to Spain during Spring Break.

Benefits of Language Study
Research findings on the learning benefits of language study have shown that SAT scores are higher for those students studying a world language. Learning a world language actually helps a student understand the English language even more by increasing English vocabulary, contextual and structural cues and comprehension skills.
- The advanced courses (levels III, IV, and V) are particularly appropriate for those students who wish to pursue world language studies at the college level.
- Retroactive credits: Upon successful completion of a placement test and one additional semester of language study in college, students may be awarded up to 16 retroactive college credits from those colleges and universities granting such credit.
- Opportunities for travel abroad are often available to world language students.
- Increase post-secondary job opportunities.
**WORLD LANGUAGE**

**GERMAN I**
**WL11/112**
Year - 1 Credit - 9, 10, 11, 12

Self, hobbies and fun, family and home, school, clothing, food and beverages, restaurants and cafes bring German 1 to life! German 1 introduces the student to German culture (i.e., formal and familiar forms of address, holidays, etc.). The student will also be exposed to the basic sounds of German and develop the skills of reading, writing, speaking, and understanding basic simple constructions in German. Students are encouraged to express themselves in German from the beginning through classroom experiences, dialogues, skits and games.

**Fees:** Students may be required to purchase a supplemental workbook, approximately $25.00

**Prerequisite:** None

**SPANISH I**
**WL121/122**
Year - 1 Credit - 9, 10, 11, 12

Spanish 1 introduces the student to basic conversation, beginning grammar, and present day Hispanic culture. The objective of Spanish I is to develop the skills of reading, writing, speaking, and understanding simple materials in Spanish. Spanish is used in class by the student and teacher.

Students will explore Spanish and Latin American culture through geography, music, food, and visuals on cultural differences. Dia de los Muertos, Cinco de Mayo, and Latin immigration are also addressed.

**Fees:** Students may be required to purchase a supplemental workbook, approximately $25.00

**Prerequisite:** None

**GERMAN II**
**WL211/212**
Year - 1 Credit - 10, 11, 12

German 2 is a continuation of German 1 with a focus of all four skills reading, writing, speaking, and listening. German 2 students further their communicative skills and cultural understanding. Topics of communication include food, activities, health, fashion, vacation, and transportation. German is used in class by the students and teacher.

**Fees:** Students may be required to purchase a supplemental workbook, approximately $25.00

**Prerequisite:** Recommended grade of a “C” or better in German 1

**SPANISH II**
**WL221/222**
Year - 1 Credit - 9, 10, 11, 12

Spanish 2 is a logical continuation of the basic skills of reading, writing, speaking and understanding introduced by the teacher and the students in Spanish I. Spanish II studies in more detail the Spanish-speaking world and the differences and similarities between cultures. Spanish is used in class by the students and teacher.

**Fees:** Students may be required to purchase a supplemental workbook, approximately $25.00

**Prerequisite:** Recommended grade of a “C” or better in Spanish I in high school or Spanish A and B and KMS teacher recommendation. Transfer and/or parochial students are required to take a placement test if they wish to enroll in Spanish II. Please contact the Guidance Department for details
German 3 students continue to build their vocabulary study with more complex aspects of grammar. They will also learn more about German history, geography, and personalities, past and present. Topics of communication include health, city vs. country living, transportation, fashion, clothing and vacations.

Fees: Students may be required to purchase a supplemental workbook, approximately $25.00

Prerequisite: Recommended grade of a “C” or better in German II

Spanish 3 students continue to build their grammar skills in the Spanish language. Class is conducted in Spanish and knowledge of the culture is expanded.

Fees: Students may be required to purchase a supplemental workbook, approximately $25.00

Prerequisite: Recommended grade of a “C” or better in Spanish II

German 4 is a continuation of German 3 with the opportunity to explore the language in special interest areas such as history, political system, science and art. German 4 also focuses on literature and reading, including fairy tales, poems, short stories, and articles.

Fees: Students may be required to purchase a supplemental workbook, approximately $25.00

Prerequisite: Recommended grade of a “C” or better in German III

Spanish 4 is an advanced course focusing on grammar refinement and review; in-depth study of historic developments of the Hispanic world as well as modern day events which have affected Latin America and Spain. Students will begin reading short stories and dramas in Spanish. Class will be conducted mostly in Spanish.

Fees: Students may be required to purchase a supplemental workbook, approximately $25.00

Prerequisite: Recommended grade of a “C” or better in Spanish III

Spanish 5 is the final course of the sequence and will emphasize grammar review, composition, and the study of literature. Students will be expected to be able to read full-length literary works and to discuss them both orally and through writing. Class will be conducted almost entirely in Spanish.

Students will read a collection of Nobel Prize winning authors in Spanish and learn the culture and history of each Latin American country addressed in the readings. Civil war, dictatorships and current events in Latin American and Spain will also be explored. A final preparation for the college placement test will take place with complete grammar review in the spring to aid students who want to earn retroactive credits when applying to college and taking placement tests.

Fees: Students may be required to purchase a supplemental workbook, approximately $25.00

Prerequisite: Recommended grade of a “C” or better in Spanish IV