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Garrett County Board of Education, 40 South Second Street, Oakland, Maryland 21550
Welcome to the Garrett County Public Schools Student Education Planning Guide! Planning the high school program is an important process that requires careful preparation and attention to detail. This information contains the approved curriculum for secondary schools in Garrett County and is designed to serve as a resource document for students, parents, and educators.

The programs offered in Garrett County’s high schools provide an appropriately challenging curriculum in language arts, science, social studies, mathematics, world language, fine arts, physical education, and career and technology education. We provide a wide variety of elective courses and extra-curricular activities.

To begin planning an educational program, students must become familiar with the graduation requirements established by the State of Maryland and the Garrett County Board of Education. Courses which provide a solid foundation for career goals, college goals, and/or personal goals must also be considered when examining the curriculum and planning a sequential high school experience.

I want to personally challenge each student to examine closely the variety of courses available in the Student Education Planning Guide and to select a program which is consistent with individual student goals, interests, and abilities. Maryland’s Career Cluster Program found at http://www.marylandpublicschools.org/NR/rdonlyres/F8A34712-B21E-4DC2-A186-9144565375F2/16366/CareerClustersLOWRES.pdf is a great reference for developing high school and postsecondary educational plans. We offer several early college and numerous Advanced Placement courses that can provide excellent opportunities for advanced study.

Every program of study listed in this booklet may not be available in every school. Each school makes a determination of the course offerings and programs available to students based on course demand. Student interest in a particular course and the availability of qualified and certified staff to teach the course are two factors which determine course offerings.

The professional staff in each school shares responsibility for providing advice and guidance to students. If questions arise, students and parents are encouraged to contact school administrators, guidance counselors, or teachers for clarification and assistance. This guide is intended to enhance the valuable guidance of parents and our school staff members as students plan a challenging course of study designed to maximize their learning potential.

Best wishes for a bright future,

**Janet S. Wilson, Ph.D.**
Superintendent of Schools

40 South Second Street * Oakland, Maryland 21550 * 301-334-8900 * www.garrettcountyschools.org
Our Vision

Education is the key to the vitality and sustainability of our community. The Garrett County Public School System maintains an environment in which staff, students, parents, and the community work collectively for a brighter tomorrow. While celebrating the culture and traditions of Garrett County, the schools create an environment where students are nurtured to become productive, enthusiastic, and successful members of society.

Students will be active and engaged learners, who enjoy school. They will meet the challenges of robust curricula in a climate that is open, fair, honest, and respectful to all people. Schools as learning communities will offer opportunities for students to achieve excellence in their academics and compassion in their interactions and relationships with others.

Partnerships are integral to building a culture of rigorous, high-quality instruction in which excellence in student achievement is normative and ensures learning and success for all students. Community contributions are encouraged and valued. Partnerships support tangibly the innovation and creativity embedded in the school system and will energize the achievement of all students.

Highly-qualified employees will be recruited and hired who –

- Value students, parents, and the larger community.
- Create and sustain learning environments in which students can realize their dreams.
- Seek continuous improvement through staff development and curriculum implementation.
- Immerse themselves within the schools to produce vibrant learning communities.
- Demonstrate stewardship of the school system’s resources.

Parents and families are critical to the success of students. Their involvement, participation, and engagement in the school system will benefit teaching and learning for all students. In cooperation with school staff, parents and family are important in building their children’s self-confidence and assisting them in acquiring the skills necessary for lifelong success and public engagement.

Mission

The mission of Garrett County Public Schools, in partnership with our community, is to inspire and foster student growth by providing rigorous instruction and learning opportunities, sustaining a culture of excellence, and preparing our students for life in an ever-changing world.

Goals

- All students will be challenged with a rigorous instructional environment preparing them to become lifelong learners and responsible citizens
- Partnerships with all members of our community will be fostered and strengthened by engaging them in the education of our children
- All students and staff will learn in a safe, secure, and caring environment where everyone is valued and respected
- Every department and school will be a good steward of system resources and will manage them in a cost-effective manner
- All employees will be highly qualified and effective in their jobs contributing to a self-renewing organization
NORTHERN GARRETT HIGH SCHOOL

ADMINISTRATION
(301)746-8668 or (301)895-5434
Mr. Gary Reichenbecher, Principal
Mr. Matt Eggleston, Assistant Principal
Mrs. Kendra Berry, Secretary
Mrs. Pamela Humberson, Secretary

COUNSELING OFFICE
(301)746-8669
Mr. John Hummel, School Counselor, Students A-K
Mrs. Cassie Arnold, School Counselor, Students L-Z
Mrs. Debra Ahern, Secretary

SOUTHERN GARRETT HIGH SCHOOL

ADMINISTRATION
(301)334-9447
Mr. James Maddy, Principal
Mr. Kurt Lear, Assistant Principal
Mrs. Kayla Cathell, Secretary
Mrs. Janet Cosner, Secretary

COUNSELING OFFICE
(301)334-1660
Ms. Denise Steinkirchner, School Counselor, Students A-La
Mrs. Beverly Sincell, School Counselor, Students Le-Z
Mrs. Christine Slaubaugh, Secretary
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Credit Requirements:

All students must earn a minimum of 23 credits and meet all state testing and service learning requirements to graduate. All students must be enrolled in an English and mathematics course all four years of high school. Credits can be earned in the following areas:
### University of Maryland System Completer (or) University of Maryland System Honors* Completer

<table>
<thead>
<tr>
<th>Credits</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>English</td>
</tr>
<tr>
<td>4</td>
<td>Mathematics-Algebra II credit, Geometry credit, plus two additional M/H mathematics credits (*Honors completer must take Pre-Calculus or higher)</td>
</tr>
<tr>
<td>3 - 4*</td>
<td>Social Studies-U.S. History, Government, World History</td>
</tr>
<tr>
<td>4</td>
<td>Science credits with Biology required (three laboratory credits)</td>
</tr>
<tr>
<td>1 - 2*</td>
<td>Fine Arts-Art, Music, Theatre, Chorus, or Band</td>
</tr>
<tr>
<td>½</td>
<td>Physical Education</td>
</tr>
<tr>
<td>½</td>
<td>Health</td>
</tr>
<tr>
<td>1</td>
<td>Technology Education</td>
</tr>
<tr>
<td>2 - 3*</td>
<td>World Languages-(Two courses of the same language at the high school level is required with four years of the same language highly recommended)</td>
</tr>
<tr>
<td>2*</td>
<td>Advanced Placement (AP) Courses</td>
</tr>
<tr>
<td>3</td>
<td>Electives</td>
</tr>
</tbody>
</table>

**23-30* CREDITS TO GRADUATE**

**NOTE ON FINANCIAL LITERACY:** A Financial Literacy course is required. Students may select from one of the following courses - Financial Management, Economics, or Agriculture Production & Mechanics Management.

**NOTE ON ENVIRONMENTAL LITERACY:** An Environmental Literacy course is required. Students may select from one of the following courses - Environmental Science or Wildlife and Forestry.
Career and Technology Completer

4  English

4  Mathematics-Algebra credit, Geometry credit, plus two additional mathematics credits with Algebra II being highly recommended

3  Social Studies-U.S. History, Government, World History

4  Science credits with Biology required (three laboratory credits)

1  Fine Arts-Art, Music, Theatre, Chorus, or Band

½  Physical Education

½  Health

1  Technology Education

4-5  State Approved Career and Technology Education Program: Agriculture (CASE), Allied Health, Automotive Mechanics, Biomedical Science, Business Education, Business Information, Carpentry, Child Care, Computer Science, Business Management, Manufacturing Engineering Technology (Machining), Pre-Engineering,

Additionally, SGHS offers Marketing and Food Production.

1  Elective  (World Languages-Two courses of the same language at the high school level is recommended)

23  CREDITS TO GRADUATE

NOTE ON FINANCIAL LITERACY: A Financial Literacy course is required. Students may select from one of the following courses - Financial Management, Economics, or Agriculture Production & Mechanics Management.

NOTE ON ENVIRONMENTAL LITERACY: An Environmental Literacy course is required. Students may select from one of the following courses - Environmental Science or Wildlife and Forestry.
Advanced Technology Completer

4  English
4  Mathematics-Algebra credit, Geometry credit, plus two additional mathematics credits with Algebra II being highly recommended
3  Social Studies-U.S. History, Government, World History
4  Science credits with Biology required (three laboratory credits)
1  Fine Arts-Art, Music, Theatre, Chorus, or Band
½  Physical Education
½  Health
1  Technology Education
2  Principles of Technology I & II
2  Electives-(World Languages-Two courses of the same language at the high school level is recommended)

23  CREDITS TO GRADUATE

NOTE ON FINANCIAL LITERACY: A Financial Literacy course is required. Students may select from one of the following courses - Financial Management, Economics, or Agriculture Production & Mechanics Management.

NOTE ON ENVIRONMENTAL LITERACY: An Environmental Literacy course is required. Students may select from one of the following courses - Environmental Science or Wildlife and Forestry

DUAL COMPLETER

A MSDE dual completer is any student who meets the requirements to become a University of Maryland System completer (two years of same world language and up to Algebra II) plus all the requirements in an approved CTE completer program.

Dual Completers will have the opportunity to earn industry certification in certain fields as well as receive graduation recognition.
Graduation Requirements

Student Service Requirements*
A student shall complete a minimum of 75 hours of student service learning that includes preparation, action, and reflection components for each activity completed. Thirty hours should be completed at the middle school level through curricular activities. The Student Service Learning experience provides an opportunity to care for others through personal contact or advocacy, either in the school or in the community.

<table>
<thead>
<tr>
<th>High School Experience</th>
<th>Grades 9-12 Independent Service Hours</th>
<th>40 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. History</td>
<td>5 hours</td>
<td></td>
</tr>
</tbody>
</table>

Students will be notified of their service learning status with each report card. High school staff will provide the student with appropriate support and assistance needed in obtaining the required hours (Service Learning Activity Period, Advisory Period, Student Service Alliance, etc.). **No senior will have the opportunity to request a modified schedule until they have completed the service learning graduation requirement.**

Those students, who transfer into Garrett County Public Schools from out-of-state or nonpublic schools, will be required to perform service learning as follows:

<table>
<thead>
<tr>
<th>Time of Student’s Transfer</th>
<th># of Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th Grade (either semester)</td>
<td>45</td>
</tr>
<tr>
<td>10th Grade (either semester)</td>
<td>30</td>
</tr>
<tr>
<td>11th Grade (either semester)</td>
<td>20</td>
</tr>
<tr>
<td>12th Grade (either semester)</td>
<td>10</td>
</tr>
</tbody>
</table>
Assessment Requirements for High School

For students enrolled in these courses during 2014-15 and 2015-16

To meet the graduation requirement, students must:

**GOVERNMENT**
- Pass the course AND pass the HSA test, the HSA re-test, or the Bridge Plan

**BIOLOGY**
- Pass the course AND pass the HSA test, the HSA re-test, or the Bridge Plan

**ALGEBRA 1 – first time Algebra 1 students**
- Pass the course AND participate in the PARCC test

**ENGLISH 10 – first time English 10 students**
- Pass the course AND participate in the PARCC test

For students enrolled in these courses during 2016-17 and beyond

To meet the graduation requirement in the following courses, students must:

**GOVERNMENT**
- Pass the course AND pass the HSA test, the HSA re-test, or the Bridge Plan

**BIOLOGY**
- Pass the course AND pass the HSA test, the HSA re-test, or the Bridge Plan

**ALGEBRA 1**
- Pass the course AND pass the PARCC, the PARCC re-test, or the Bridge Plan

**ENGLISH 10**
- Pass the course AND pass the PARCC, the PARCC re-test, or the Bridge Plan

Completing the picture for the class of 2017 and beyond

*College and Career-Ready and College Completion Act of 2013*

- PARCC Algebra 2 (2014-2015 and beyond) or other college placement assessment
- PARCC English 11 (needs to be administered beginning in 2015-16) or other college placement assessment
- Transition courses for 12th graders must be provided beginning 2016-17
Post-Secondary Planning

Guidelines for Parents and Students
Grades 8 – 12

The following grade-by-grade timeline is designed to assist in preparing for college and training after high school. This includes career and college searches, the application process and applying for scholarships and financial aid.

NOTE: Numerous college and career exploration resources are available through the School’s Counseling Center.

Grade 8

Spring
- Using information from your career portfolio, determine your four-year career pathway with your school counselor and parents.
- Plan a schedule for 9th grade to include Algebra I or higher. Choose academically challenging courses and electives that complement your career goals. Consider beginning a world language even if not required by your pathway.

Grade 9

Fall
- Improve study skills to achieve the best grades. Academic achievement is important for future success.
- Consider after-school tutoring to improve grades.
- Read books from a variety of subject areas to build your vocabulary knowledge.
- Look for opportunities to broaden your communications skills.
- Get involved in school and community activities.
- Access http://mwejobs.maryland.gov and other websites to explore and refine your career choices.
- Consider attending Mountain Top College Expo to explore post-secondary education options with college and technical school representatives.
- Complete required student service learning hours.

Spring
- Review your four-year career pathway with your school counselor. Make sure your course schedule reflects your career pathway.
- Consider including a higher level math and World Languages in your 10th grade schedule.
- Ask your school counselor about career resources.
- Consider taking Advanced Placement courses for college credit.
Post-Secondary Planning

Grade 10

Fall

• Take the Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test (PSAT/NMSQT) given in October at your high school.

• Access http://mwejobs.maryland.gov and other career and college websites to refine your career and college choices.

• Become familiar with financial aid websites.

• Focus on your involvement in select school and volunteer activities.

• Research college/school information (available in the Counseling Center, Media Center or on the internet) to review program offerings and admission requirements.

• Consider attending Mountain Top College Expo to explore and compare programs with college/school representatives.

• Work toward leadership positions in one or two activities which you like best.

• Read as many books as possible from the recommended reading list. (Ask your English teacher for a list.)

• Broaden your reading with magazines, newspapers, and other non-required materials.

• Look for opportunities to broaden your communications skills.

• Student athletes with potential to play collegiate sports at Division I or II level need to register with the NCAA. www.eligibilitycenter.org

Spring

• Take the Scholastic Aptitude Test preparation (SAT Prep) class offered during or after school by your high school.

• Review your four-year career pathway and scheduled courses with your school counselor and become familiar with senior year options.

• Consider taking Advanced Placement courses for college credit.

• Check merit/honor credits and grade point average if working toward certificate of merit or honors status.

• Continue working on required service learning hours and seek out volunteer service learning opportunities that go beyond meeting the minimum high school requirement.

• Begin career exploration activities, such as informational interviews, job shadowing, and mentoring.

• Plan to complete all high school requirements (except English IV) by the end of the junior year in order to be eligible for the Early College Admission Program (ECAP) or School-to-Careers as an option in grade 12.
Post-Secondary Planning

Grade 11

Fall
- Continue to explore and refine your career choices.
- Continue your college/school search and develop a list of 6 to 12 colleges/schools from which you request information.
- Explore state schools and financial aid at http://www.mhec.state.md.us
- Attend the Mountain Top College Expo to compare admission requirements, program offerings and financial assistance.
- Meet with college, school, and armed services representatives during school visits.
- Register in September to retake the PSAT/NMSQT in October.
  - Only Junior PSAT scores may qualify a student for the National Merit Scholarship Program.
- Register for and take the SAT I (http://www.collegeboard.org) and/or ACT (http://www.act.org) tests for college admission by completing a registration packet or registering online.
- Take the Armed Services Vocational Aptitude Battery (ASVAB) at your high school to determine your aptitudes.
- Student athletes double check your status in your NCAA account. www.eligibilitycenter.org
- Consult with coaches about college athletic opportunities and goals.
- Begin application process if interested in a military academy.
- Read as many books as possible from a recommended reading list. (Ask your English teacher for a list.)
- Broaden your reading with magazines, newspapers, and other non-required materials.
- Look for opportunities to broaden your communications skills.
- Participate in Real Deal offered as part of the High School Career Development Program.

Spring
- Review your four-year career pathway and course schedule with your school counselor to consider Advanced Placement classes, College Distance Learning classes, Modified Schedule, the Early College Admissions Program (ECAP), and/or School-to-Careers.
- Register for and take the SAT I (http://www.collegeboard.org) and/or ACT (http://www.act.org) tests for college admission by completing a registration packet or registering online.
- Continue to refine your list of 6 to 12 colleges/schools.
- Attend college visitation days at the colleges/schools which you are considering.
- Update portfolios.
- Fine arts students need to prepare portfolios for auditions.
- Consider attending leadership development opportunities. Consult with your school counselor.
- Seek part-time/summer employment/internship in career areas.
- Complete required student service learning hours.
- Provide your email address to your school counselor.

Summer
- Continue to narrow college/ school choices by through research.
- Make college/school visits.
- Send for application forms and/or review applications online.
- Review and prepare for the fall administration of the ACT/SAT college admissions tests.
Post-Secondary Planning

Grade 12

Fall
- Be aware of the application deadlines and requirements of those colleges/schools and scholarships for which you wish to apply.
- Complete and return a release of information form obtained from the school counseling center.
- Attend the Mountain Top College Expo in October (includes a financial aid seminar).
- Review the Scholarship Booklet and monthly Scholarship Bulletins provided by your high school Counseling Center for other scholarship opportunities.
- Narrow your choices to 3 or 4 colleges/schools. Take into consideration admission and financial demands. College applicants should choose a competitive college, a selective college for which you would likely be admitted, and a college with open admissions and affordable tuition.
- Register for and retake the SAT/ACT and take the required SAT II admission tests.
- Be aware that most colleges in the University of Maryland system screen applications for merit scholarships for students who have applied by November 1st.
- Write application essays.
- Request three letters of recommendation and/or any required school counselor recommendations a month prior to the application deadline.
- Complete and recheck your application(s).
- Submit your application packets to the school counseling center along with a $1.00 processing fee for each official transcript requested.
- Meet or beat college deadlines, keeping in mind that applications may require letters of recommendation.
- Review the Scholarship Booklet and monthly Scholarship Bulletins.
- Identify and apply for scholarships and financial aid according to the procedures and deadlines of the colleges that you have selected including the Garrett County Scholarship if planning to attend Garrett College.
- Be aware that colleges/schools request mid-year grades and reserve the right to retract an offer of admission if grades decline.
- Read as many books as possible from a recommended reading list. (Ask your English teacher for a list.)
- Broaden your reading with magazines, newspapers, and other non-required materials.
- Look for opportunities to improve your communication skills.

Winter
- Attend the Financial Aid Seminar offered at your high school.
- Complete the Free Application for Federal Student Aid (FAFSA form). This form determines a student’s eligibility for federal and state aid. Apply on-line at http://www.fafsa.gov
- Apply for the Howard Rawlings Guaranteed Access Grant by March 1st.
- Attend College Goal Sunday to receive assistance in completing the financial aid application.
- Remember that Financial Aid deadlines are based on individual college/school deadlines but due no later than March 1st.
- Send mid-year grade reports to colleges/schools as required.

Spring
- Remember March 1st is often the final scholarship application deadline at many colleges.
- Make final decision by May 1st.
- Request a final high school transcript for your chosen college/school.
- Complete portfolios.
FINAL GRADES

Final grades are determined by translating the percentage grades to a letter grade based on a four-point scale in the following manner:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percent Grade</th>
<th>4.0 Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>97-100</td>
<td>4.0</td>
</tr>
<tr>
<td>A</td>
<td>93-96</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>90-92</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>87-89</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>83-86</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>80-82</td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>77-79</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>73-76</td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td>70-72</td>
<td>1.7</td>
</tr>
<tr>
<td>D+</td>
<td>67-69</td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td>63-66</td>
<td>1.0</td>
</tr>
<tr>
<td>D-</td>
<td>60-62</td>
<td>0.7</td>
</tr>
<tr>
<td>E/F</td>
<td>Below 60</td>
<td>0.0</td>
</tr>
</tbody>
</table>

WEIGHTED GPA AND CLASS RANK

Student grade point averages will be weighted to determine class rank at the end each school year.
- Merit courses will have a quarter of a point (0.25) added to the final grade.
- Honors, Dual Enrollment and ECAP courses will have a half of a point (0.50) added to the final grade.
- Advanced Placement courses will receive one point (1.00) added to the final grade.

Weighted grade point average will not be reflected on individual report cards. Both a weighted and un-weighted GPA will be provided to colleges for admission and scholarship determination.

TO ACHIEVE:

**Sophomore** status you need **5 credits** and must be in **second year** of high school

**Junior** status you need **9 credits** and must be in **third year** of high school

**Senior** status you need **16 credits** and must be in **fourth year** of high school
HONOR GRADUATE STATUS

The “Certificate of Merit” program is intended to challenge students to attempt a more demanding academic Program of Studies (University of Maryland System Honors Completer). It is also used to recognize students who successfully complete this program. In addition to earning a Certificate of Merit, the Garrett County schools will confer the status of “Honor Graduate” upon all students who achieve the following:

- Successful completion of 30 credits of course work earned at the high school (3 credits of the same World Language at the high school level-with four credits highly recommended, and Pre-Calculus or higher mathematics or only 2 credits of the same World Language if completing a Project Lead The Way Program),
- Successful completion of 15 credits in courses designated as merit/honor classes (a minimum of eight honors credits two of which will be Advanced Placement courses),
- Accumulate a total weighted grade average (including all credit courses attempted in grades 9 through 12) of 3.7 or above.

CERTIFICATE OF MERIT

The Garrett County “Certificate of Merit” program is advanced instruction in which student concentration is geared toward application, analysis, synthesis, and a greater depth of content. In addition to the Maryland High School Diploma a student is eligible to receive a Certificate of Merit by completing the following criteria:

- Successful completion of 23 credits of course work (minimum of 2 World Languages credits at the high school level and 4 merit/honors mathematics courses),
- Successful completion of 12 credits in courses designated as merit/honor classes,
- Accumulate a total weighted grade average (including all credit courses attempted in grades 9 through 12) of 2.7 or above, and
- Maintain full-time equivalency (FTE) status (4 or more high school credit courses per year)

COLLEGE ENTRANCE EXAMS

All 10th grade students take the PSAT as part of the county Career Development Plan. Students who want to try to qualify for National Merit Scholarships must retake the PSAT in their 11th grade year. Juniors and seniors must take either the SAT and/or ACT to be considered for direct admission to most 4-year colleges. SAT preparation classes are HIGHLY RECOMMENDED and are offered at the high schools each semester (during and after school as enrollment permits) at no cost to the students. See your school counselor for dates and times.

GARRETT COUNTY SCHOLARSHIP PROGRAM

In 2006, the Board of County Commissioners recognized that the County’s future economic well-being is dependent on having an educated, skilled workforce that is prepared to compete successfully for jobs in an increasingly competitive, global economy. The Commissioners also recognize that the County’s most important asset is its young people. The Garrett County Scholarship Program sends a clear message that Garrett County:

- values education;
- cares about its young people; and
- is committed to developing and maintaining a balanced, diversified economy.

Through this program, seniors concurrently enrolled in high school (maintaining a Full Time Equivalency equal to four high school courses) and Garrett College courses (not offered as a component of the high school program) and/or a current high school graduates are eligible to receive a student aid package covering the cost of tuition. Students and parents are encouraged to discuss the scholarship opportunities with school counselors.
RELEASED TIME – SUPPLEMENTAL COLLEGE PROGRAM, MODIFIED SCHEDULE, AND HARDSHIP

Garrett County provides the following Released Time program for high school completion within guidelines provided by the Maryland State Department of Education.

- The Supplemental College Program (post-secondary education #MS001) is a modified schedule which allows a student in the senior year to elect, through the usual scheduling procedures of the school, to take the requirements for high school graduation and be released to take one or more classes at an approved college of the student’s choice the remainder of the student’s school day or during the evening. Students MAY NOT enroll into college courses that are currently a component of the high school program unless said courses are defined in this guide.

- The Modified Schedule (work #MS002) allows a student during the senior year to request to be released during the day if all graduation requirements are being met. **NOTE:** Students must complete all service learning requirements by the end of their junior year to be eligible to apply for a modified schedule their senior year.

- The Severe Hardship Program (home #MS003) is a modified schedule for students who may have severe hardships as determined by the administration.

All requests for Released Time Programs shall originate in writing from the parents or guardians and shall have the approval of the students who is involved. These requests must be submitted to the building principal PRIOR TO THE END OF THEIR JUNIOR YEAR. No senior will have the opportunity to request a modified schedule until they have completed ALL graduation requirements (except English IV, senior mathematics course and appropriate CTE courses) and maintain full-time equivalency (FTE=a minimum of 4 credits during the senior year).

The following factors will be considered in reviewing applications for released time:

- completion of high school graduations requirements (except English IV and appropriate CTE courses) including meeting all state testing requirements;
- completion of a financial literacy course;
- completion of comprehensive environmental literacy program;
- completion of Student Service Learning obligation;
- chronological age;
- maturity level;
- attendance;
- marital status;
- grades and current GPA;
- achievement test scores;
- occupational choice;
- dependents;
- student’s probable success in the released time program;
- teacher’s, counselor’s, and principal’s recommendations.

**NOTE:** Visit school’s Counseling Center for appropriate forms.

GENERAL INFORMATION
Early College Admission Programs (ECAP) Selection Criteria

The ECAP program is designed to provide academically advanced senior students the opportunity to earn college credit as a means of satisfying senior year graduation credits. The selection criteria below are used as a guideline for consideration of placement into the ECAP program. Meeting all criteria does not guarantee admittance into the program; however, not meeting all criteria does not preclude a student from being eligible. These criteria are the most important considerations for evaluating the appropriate inclusion of any student in this program. Final decision regarding eligibility rests with the Superintendent of the Garrett County Board of Education upon recommendation from the ECAP Committee.

1. Student must have met all graduation requirements (except English IV and Senior mathematics course) including Student Service Learning and state testing requirements plus any non-academic class required for pathway completion.

2. Successful completion of 3 credits of the same world language and mathematics through pre-calculus.

3. Student must have completed a minimum of 15 merit and/or honor level courses. Eight of these courses must be honors and two must be AP.

4. Student must have a cumulative un-weighted average of at least 3.7 in core classes (English, mathematics, social studies, science and world languages) for grades 9 through 11.

5. Student must have established satisfactory attendance (96%) through junior year.

6. Student must have no history of unlawful absences as defined by more than one per school year.

7. Student must show above average scores on a nationally normed test:
   - ACT - 23 minimum
   - SAT - 1650 minimum (combined writing, critical reading and mathematics score)
   - PSAT - 165 minimum (combined writing, critical reading and mathematics score)

8. Student must secure three (3) letters of recommendation from teachers/school counselor.

9. Student must present proof of acceptance for admission into college and be at least 16 years of age.

10. Student must possess an exemplary discipline record with no suspensions on his/her career record.

NOTES: Interested students should contact the Counseling Office to pick up and review application packet and procedures, or to set up an appointment to learn more about ECAP.

COMPLETED ECAP APPLICATIONS ARE DUE IN THE Guidance Office BY MARCH 1st

Students accepted into the ECAP will be required to pay tuition and fees to their chosen college/technical school unless they qualify for the Garrett County Scholarship Program at Garrett College. Additionally, they must provide their own transportation.

ECAP students are not eligible for the honors of valedictorian or salutatorian, however, they may be recognized as a merit or honors graduate, if eligible.

Maryland Public Secondary Schools Athletic Association rules do not allow an ECAP student to participate in sports or competitive events.

GENERAL INFORMATION
Early Vocational Technical Program (EVTP) Selection Criteria

The EVTP program is designed to provide our CTE advanced senior students with an opportunity to simultaneously gain high school and vocational/technical credits. The selection criteria below are used as a guideline for consideration of placement into the EVTP program. Meeting all criteria does not guarantee admittance into the program; however, not meeting all criteria does not preclude a student from being eligible. These criteria should be the most important considerations for evaluating the appropriate inclusion of any student in this program. Final decision regarding eligibility rests with the Superintendent of the Garrett County Board of Education and the EVTP Committee.

1. Student must have met all graduation requirements (except English IV and Senior mathematics course) including Student Service Learning and state testing requirements plus any non-academic class required for pathway completion.

2. Student must have a cumulative average of at least 2.0 in the CTE pathway and core subject, including English, mathematics, social studies, and science for grades 9 through 11.

3. Student must have established satisfactory attendance (96%).

4. Student must have no history of unlawful absences.

5. Student must show above average scores on a nationally normed test:
   - PSAT - 155 (combined writing, critical reading and mathematics score)

6. Student must secure three (3) letters of recommendation from teachers/school counselor.

7. Student must be accepted for admission into vocational/technical program and be at least 16 years of age.

8. Student must have no significant discipline referrals.

NOTES: Interested students should contact the Counseling Office to pick up and review application packet and procedures, or to set up an appointment to learn more about EVTP.

COMPLETED EVTP APPLICATIONS ARE DUE IN THE Guidance Office BY MARCH 1st

Students accepted into the EVTP will be required to pay tuition and fees to their chosen college/technical school unless they qualify for the Garrett County Scholarship Program at Garrett College. Additionally, they must provide their own transportation.

EVTP students are not eligible for the honors of valedictorian or salutatorian, however, they may be recognized as a merit or honors graduate, if eligible. Maryland Public Secondary Schools Athletic Association rules do not allow an EVTP student to participate in sports or competitive events.

GENERAL INFORMATION
What is Dual Enrollment?? - dual enrollment courses are dual credited with the high school which enables students to work toward meeting specific high school graduation credit requirements while receiving college credit

DUAL ENROLLMENT ADMISSION CRITERIA
Any student who meets the following criteria may sign up to dually enroll into high school and college courses:

- Students must have met all graduation requirements (except English IV and Senior mathematics course) including Student Service Learning and state testing requirements;
- Students who receive an average un-weighted minimum class average for merit and/or honors English of 3.0 or higher. General English course(s) will NOT be accepted into this average;
- Students who receive an average un-weighted minimum class average for merit and/or honors mathematics of 3.0 or higher. General mathematics course(s) will NOT be accepted into this average;
- maintain a satisfactory attendance (96% overall average) with no history of unlawful absences; and
- have no significant discipline referrals.

Any student who DOES NOT meet the above mentioned criteria may still attempt to dually enroll into high school and college courses but they MUST meet the following:

- Student must have met all graduation requirements (except English IV and Senior mathematics course) including Student Service Learning and state testing requirements;
- maintain a satisfactory attendance (96% overall average) with no history of unlawful absences;
- have no significant discipline referrals; and
- take and pass a Garrett College Placement Indicator or other form of evaluation determined by the Garrett College dual enrollment advisor.

NOTE: In addition to enrolling into Garrett College, students have the opportunity to earn similar credits by taking Advanced Placement (AP) courses at the high school. An advanced placement course has proven to better prepare students for the post-secondary experience, and students earning a qualifying score on the National AP Exam may receive college credit at a post-secondary institution. Students and parents/guardians are encouraged to carefully consider which option of obtaining college credit BEST meets post-secondary and/or career goals.
Garrett County high school students have an opportunity to earn college credits while attending the Garrett County Public Schools. Up to eight courses may be offered through the Distance Learning Lab beginning in September (see your counselor for information). Students should refer to the schedule selection sheet for course offerings. The courses to be offered are noted below.

### DLL TENTATIVE COURSES

<table>
<thead>
<tr>
<th>COLLEGE COURSE</th>
<th>GARRETT COUNTY PUBLIC SCHOOL SYSTEMS COURSE</th>
<th>YES = will meet graduation requirement for GCPS Elective only = credit will be offered only as an elective</th>
<th>GARRETT COLLEGE CREDIT</th>
<th>HIGH SCHOOL CREDIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 101, COMPOSITION I</td>
<td>ENGLISH IV</td>
<td>YES</td>
<td>3</td>
<td>0.5</td>
</tr>
<tr>
<td>ENGLISH 102, INTRODUCTION TO LITERATURE</td>
<td>ENGLISH IV</td>
<td>YES</td>
<td>3</td>
<td>0.5</td>
</tr>
<tr>
<td>MATH 105, COLLEGE ALGEBRA</td>
<td>ALGEBRA III</td>
<td>YES (SENIOR ONLY)</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>BIOLOGY 150, GENERAL ECOLOGY (not a lab science)</td>
<td>SCIENCE</td>
<td>YES (SENIOR ONLY)</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>GEOGRAPHY 201, CULTURAL GEOGRAPHY</td>
<td>SOCIAL STUDIES ELECTIVE</td>
<td>½ CREDIT SOCIAL STUDIES ELECTIVE</td>
<td>3</td>
<td>0.5</td>
</tr>
<tr>
<td>SPEECH 101, INTRODUCTION TO COMMUNICATION</td>
<td>ENGLISH ELECTIVE</td>
<td>½ CREDIT ENGLISH ELECTIVE</td>
<td>3</td>
<td>0.5</td>
</tr>
<tr>
<td>ART 103, ART APPRECIATION</td>
<td>FINE ARTS ELECTIVE</td>
<td>½ CREDIT FINE ARTS ELECTIVE</td>
<td>3</td>
<td>0.5</td>
</tr>
<tr>
<td>SOCIOLOGY 101, PRINCIPLES OF SOCIOLOGY</td>
<td>SOCIAL STUDIES ELECTIVE</td>
<td>½ CREDIT SOCIAL STUDIES ELECTIVE</td>
<td>3</td>
<td>0.5</td>
</tr>
</tbody>
</table>

### DUAL ENROLLMENT

at the Garrett College campus (as enrollment permits) with a Garrett College Instructor

Garrett County high school students have an opportunity to earn college credits while attending the Garrett County Public Schools. Up to six college courses (3 high school courses) may be offered on the Garrett College campus beginning in September (see your counselor for information). Students should refer to the schedule selection sheet for course offerings and minimum prerequisites. Students selecting this program MUST schedule with Garrett College and have own transportation to attend sessions after the regular school day. The courses to be offered are noted below.

### POSSIBLE ON CAMPUS COURSES AVAILABLE

| ENGLISH 103, TECHNICAL WRITING | ENGLISH ELECTIVE | ENGLISH ELECTIVE ONLY | 0.5 |
| MATH 107, TRIGONOMETRY | PRE-CALCULUS | YES | 0.5 |
| MATH 210, STATISTICS | PROBABILITY & STATISTICS | YES | 0.5 |
| HISTORY 111, AMERICAN HISTORY TO 1865 | SOCIAL STUDIES ELECTIVE | SOCIAL STUDIES ELECTIVE ONLY | 0.5 |
| HISTORY 112, AMERICAN HISTORY SINCE 1865 | SOCIAL STUDIES ELECTIVE | SOCIAL STUDIES ELECTIVE ONLY | 0.5 |
| PHILOSOPHY 101, INTRODUCTION TO PHILOSOPHY | SOCIAL STUDIES ELECTIVE | SOCIAL STUDIES ELECTIVE ONLY | 0.5 |
| EARTH SCIENCE 101, PHYSICAL GEOLOGY | SCIENCE ELECTIVE | SCIENCE ELECTIVE ONLY | 0.5 |
| EARTH SCIENCE 121, PHYSICAL GEOGRAPHY | SCIENCE ELECTIVE | SCIENCE ELECTIVE ONLY | 0.5 |

**SPECIAL NOTE:** Unless noted, credits earned from Garrett College will transfer to all colleges/universities within the University Maryland System. Because Garrett College is an accredited institution, most credits earned there will also transfer to institutions outside of Maryland. Students intending to transfer credit earned at Garrett College to institutions outside of Maryland should contact their intended transfer institution to verify transferability of credit.
### GARRETT COLLEGE

Descriptions for dual credit courses offered through the Distance Learning Lab

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits at GC</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENG101</strong></td>
<td><strong>ENGLISH 101 – COMPOSITION I</strong></td>
<td><strong>3 credits</strong></td>
<td>A course in writing expository and research-based essays that emphasize the development of clear theses through various rhetorical modes including description, narration, comparison contrast, analogy, definition, analysis, classification, argumentation, and persuasion. Students will write and extensively revise before submitting for a grade a minimum of five expository papers, four-to-six typed, double-spaced pages. Additionally, students are strongly encouraged to visit the Writing Center for help on papers prior to turning in work to be graded. As writer voices develop, students use print and non-print sources to help support theses, leading to writing adhering to MLA guidelines. Students taking this course to fulfill their GER writing requirement must earn a minimal grade of C or repeat the course. <strong>NOTE: ENG101 can be used as a prerequisite for most of the other dual credit courses.</strong> Prerequisite: College Placement Indicator (unless waived)</td>
</tr>
<tr>
<td><strong>ENG102</strong></td>
<td><strong>ENGLISH 102 – INTRODUCTION TO LITERATURE</strong></td>
<td><strong>3 credits</strong></td>
<td>This course emphasizes critical writing about literature, including interpretation, analysis, and evaluation, as well as a critical review of issues common to the human experience. Students will become familiar with analytical approaches to writing about literature and will write a minimum of four essays using multiple print and non-print sources to support arguable thesis statements. To better understand writer, text, and audience, students will explore the social, historical, and cultural contexts within which works are created. Prerequisite: ENG101</td>
</tr>
<tr>
<td><strong>MAT105</strong></td>
<td><strong>MATH 105 – COLLEGE ALGEBRA</strong></td>
<td><strong>3 credits</strong></td>
<td>An introduction to functions from multiple points of view – verbal, graphical, numerical, and symbolic – with an emphasis on using functions to model real-world phenomena. The linear, quadratic, exponential, and logarithmic families of functions are explored in depth. Prerequisite: College Placement Indicator (unless waived)</td>
</tr>
<tr>
<td><strong>BIO150</strong></td>
<td><strong>BIOLOGY 150 – GENERAL ECOLOGY</strong></td>
<td><strong>3 credits</strong></td>
<td>Basic principles of ecology. Interrelationships between animals and plants and their natural environments. Special emphasis is placed on the structure and composition of terrestrial and aquatic communities and population dynamics. The course is designed to provide the basic knowledge necessary for further studies in Wildlife Management.</td>
</tr>
<tr>
<td><strong>GEO201</strong></td>
<td><strong>GEOGRAPHY 201 – CULTURAL GEOGRAPHY</strong></td>
<td><strong>3 credits</strong></td>
<td>A study of man’s distribution in regional settings with emphasis on interrelationships of cultural diversity, economic development, and patterns of living. Prerequisite: ENG101-Ready</td>
</tr>
<tr>
<td><strong>SPC101</strong></td>
<td><strong>SPEECH 101 – INTRODUCTION TO COMMUNICATION</strong></td>
<td><strong>3 credits</strong></td>
<td>This course is designed to introduce the student to the fundamentals of human communication and public address. Students will study the basic elements of the communication process; basic techniques of interpersonal communication; elements of speech composition and speech presentation skills applied to informative and persuasive speaking. Prerequisite: ENG101-Ready</td>
</tr>
<tr>
<td><strong>ART103</strong></td>
<td><strong>ART 103 – ART APPRECIATION</strong></td>
<td><strong>3 credits</strong></td>
<td>A course that introduces a student to art in its various forms and develops an appreciation of the visual arts. The study includes a survey of media, styles and structures, theories and criticism of art. Prerequisite: ENG 101-Ready</td>
</tr>
<tr>
<td><strong>SOC101</strong></td>
<td><strong>SOCILOGY 101 – PRINCIPLES OF SOCIOLOGY</strong></td>
<td><strong>3 credits</strong></td>
<td>An introduction to the primary concepts, terminology, and methods of investigation employed in the analysis of social institutions. Topics include processes leading to social stratification, analysis of various types of groups and their interrelationships, social class and social change, ethnic groups, problems of population growth and the development of human resources. Prerequisite: ENG101-Ready</td>
</tr>
</tbody>
</table>

### GENERAL INFORMATION
Descriptions for dual credit courses offered at Garrett College campus

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits at GC</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG103</td>
<td>ENGLISH 103 – TECHNICAL WRITING</td>
<td><strong>3 credits</strong></td>
<td>A course designed to develop practical skills in the writing and interpretation of technical reports, memoranda, progress reports, media charts and graphs, technical journal articles, and oral presentation of reports. Students will be expected to complete extended documented reports illustrating competency in technical writing and standard English skills. Students will write and extensively revise a series of assignments designed to help them achieve proficiency in a variety of writing skills. Students taking this course to fulfill their GER writing requirement must earn a minimal grade of C or repeat the course. Instructional Hours: 3  Prerequisite: College Placement Indicator</td>
</tr>
<tr>
<td>MAT107</td>
<td>MATH 107 - TRIGONOMETRY</td>
<td><strong>3 credits</strong></td>
<td>A course offered in a multimedia classroom. Definitions of the functions and variations, degree and radian measure, inverse functions and graphs, polar coordinates, complex numbers and applications of plane trigonometry. (Graphing calculator required.) Instructional Hours: 3  Prerequisite: MAT105 or equivalent competencies</td>
</tr>
<tr>
<td>MAT210</td>
<td>MATH 210 – INTRODUCTION TO STATISTICS</td>
<td><strong>3 credits</strong></td>
<td>A course offered in a multimedia classroom for students whose field of study requires knowledge of the methods of statistical inference. Topics include organization of data, elementary probability, the binomial distribution, the normal distribution, hypotheses testing, and confidence intervals. (Graphing calculator required.) Instructional Hours: 3  Prerequisite: MAT075 or equivalent competencies</td>
</tr>
<tr>
<td>HIS111</td>
<td>HISTORY 111 – AMERICAN HISTORY TO 1865</td>
<td><strong>3 credits</strong></td>
<td>A survey of American history through the Civil War. Included are our European heritage, achievement of political independence, territorial expansion, economic development and the Civil War. Instructional Hours: 3  Prerequisite: ENG071</td>
</tr>
<tr>
<td>HIS112</td>
<td>HISTORY 112 – AMERICAN HISTORY SINCE 1865</td>
<td><strong>3 credits</strong></td>
<td>A survey of American history since 1865. Topics include industrialization, immigration, progressive era, overseas expansion, American involvement in the World Wars, the Cold War, and our entry into the 21st Century. Instructional Hours: 3  Prerequisite: ENG071</td>
</tr>
<tr>
<td>PHL101</td>
<td>PHILOSOPHY 101 – INTRODUCTION TO PHILOSOPHY</td>
<td><strong>3 credits</strong></td>
<td>This course introduces the beginning philosophy student to seven foundational questions that have inspired the western philosophical enterprise for two-and-one-half millennia: Am I both a body and a mind? Do I have free will? Does God exist? What is knowledge, and how is it acquired? How can I distinguish right from wrong? Am I immortal? What is the meaning of life? To give a balanced perspective on these controversial issues, students study representative philosophers primarily drawn from the modern and twentieth century periods including such luminaries as Socrates, St. Augustine, St. Thomas Aquinas, Rene Descartes, Blaise Pascal, David Hume, Immanuel Kant, John Stuart Mill, Friedrich Nietzsche, William James, Soren Kierkegaard, John Dewey, and Jean-Paul Sartre. Instructional Hours: 3  Prerequisite/Co-requisite: ENG101, ENG103, or ENG111.</td>
</tr>
<tr>
<td>ESC101</td>
<td>EARTH SCIENCE 101 – PHYSICAL GEOLOGY</td>
<td><strong>4 credits</strong></td>
<td>A study of the physical and structural features of the earth and of the physical, chemical, and biological processes that produced them. Interpretation of geologic features and identification of common rocks and minerals will be emphasized in the laboratory Instructional Hours: 3  Lab Hours: 2  Prerequisite/Co-requisite: ENG071</td>
</tr>
<tr>
<td>ESC121</td>
<td>EARTH SCIENCE 121 – PHYSICAL GEOGRAPHY</td>
<td><strong>4 credits</strong></td>
<td>This course introduces the student to the basic concepts and principles of physical geography. Topics include earth-sun relations, map reading and interpretation, elements of weather, climate and climate regions, fundamental geologic processes, land forms, soils, and biogeography. Instructional Hours: 3  Lab Hours: 2  Prerequisite/Co-requisite: ENG 071 and MAT 075</td>
</tr>
</tbody>
</table>

GENERAL INFORMATION

SCHEDULE CHANGE CRITERIA
Schedule changes will only be granted in the following instances:

1. a student has an incomplete schedule,
2. a student has been placed in courses out of sequence (i.e. Spanish II-M during first semester and Spanish I during second semester),
3. a student desires to move to a more advanced course (i.e. from English IV - Merit to English IV - Honors) and meets the prerequisite,
4. a student did not receive a course required for graduation which he/she requested,
5. a student’s I.E.P. necessitates a change via the special education process,
6. a teacher recommends that the student be moved to a different level based on the student’s needs and provides documentation demonstrating this need, or
7. a student selects another career pathway with different course requirements or recommendations.

Schedule changes will not be granted in instances, not limited to, but including:

1. a request for a specific teacher is made when the student did receive the course requested unless that student previously had the class with the teacher with whom he/she is currently scheduled and did not pass (please realize that there are some courses that are taught by only one teacher),
2. the student has received the classes for which he/she registered and has since changed his/her mind, or
3. a student did not turn in schedule selection sheet (In this case, the student would be scheduled into classes according to his/her four-year plan).

SAMPLE NINTH GRADE SCHEDULE AT NORTHERN GARRETT HIGH SCHOOL

14-15 Semester 1

<table>
<thead>
<tr>
<th>Exp</th>
<th>Trm</th>
<th>Crs-Sec</th>
<th>Course Name</th>
<th>Teacher</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>1(A-B)</td>
<td>S1</td>
<td>560-1</td>
<td>PRINCIPLES OF ENGINEERING</td>
<td>KIRCHNER, MARK R</td>
<td>V20</td>
</tr>
<tr>
<td>2(A-B)</td>
<td>S1</td>
<td>310-1</td>
<td>BIOLOGY-H</td>
<td>GLASS, CARRIE</td>
<td>220</td>
</tr>
<tr>
<td>3(A-B)</td>
<td>S1</td>
<td>114-1</td>
<td>GEOMETRY-H</td>
<td>GRIMM, GAYLE L</td>
<td>101</td>
</tr>
<tr>
<td>ENR(A)</td>
<td>14-15</td>
<td>EE-2</td>
<td>ENRICHMENT</td>
<td>BERGER, ANGELA N</td>
<td>219</td>
</tr>
<tr>
<td>4(A-B)</td>
<td>S1</td>
<td>220-2</td>
<td>U.S. HISTORY-H</td>
<td>NICKLIN, SHAWN D</td>
<td>111</td>
</tr>
<tr>
<td>ENR(B)</td>
<td>14-15</td>
<td>CLUB-8</td>
<td>CLUB</td>
<td>BERGER, ANGELA N</td>
<td>219</td>
</tr>
</tbody>
</table>

SAMPLE NINTH GRADE SCHEDULE AT SOUTHERN GARRETT HIGH SCHOOL

14-15 Semester 2

<table>
<thead>
<tr>
<th>Exp</th>
<th>Trm</th>
<th>Crs-Sec</th>
<th>Course Name</th>
<th>Teacher</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>1(A)</td>
<td>S2</td>
<td>060-3</td>
<td>THEATRE ARTS I</td>
<td>WHITE, ERIN D</td>
<td>STAGE</td>
</tr>
<tr>
<td>2(A)</td>
<td>S2</td>
<td>561-4</td>
<td>INTRODUCTION TO ENGINEERING DESIGN-M</td>
<td>PYLE, Matt C</td>
<td>1250</td>
</tr>
<tr>
<td>3(A)</td>
<td>S2</td>
<td>108-3</td>
<td>ALGEBRA IB-M</td>
<td>WOLF, RYAN T</td>
<td>2115</td>
</tr>
<tr>
<td>4(A)</td>
<td>S2</td>
<td>580-2</td>
<td>PRINCIPLES OF THE BIOMEDICAL SCIENCES-M</td>
<td>MARKS, DIANA G</td>
<td>2122</td>
</tr>
<tr>
<td>RAM(A)</td>
<td>14-15</td>
<td>0043-30</td>
<td>ACADEMIC RESOURCE</td>
<td>LEWIS, STEPHANIE A</td>
<td>1217</td>
</tr>
<tr>
<td>ADV(A)</td>
<td>14</td>
<td>Adv 9-16</td>
<td>9th Grade Advisory</td>
<td>COSNER, Steve</td>
<td>2219</td>
</tr>
</tbody>
</table>
**ADVANCED PLACEMENT COURSES (AP)**

*The following advanced placement courses will be offered at the school indicated if enrollment allows.*

**NOTE:** Students enrolled in an AP course are REQUIRED to take the AP Exam.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History AP</td>
<td>#447AP</td>
</tr>
<tr>
<td>Biology AP</td>
<td>#320AP - It is required that a student who selects this course also enroll into Biology II-H <em>(Pre AP).</em></td>
</tr>
<tr>
<td>Calculus AB AP</td>
<td>#137AP - It is required that a student who selects either of these courses also enroll into Elements of Calculus-Pre-AP in order to receive a calculus credit.</td>
</tr>
<tr>
<td>Calculus BC AP</td>
<td></td>
</tr>
<tr>
<td>Chemistry AP</td>
<td>#314AP - It is required that a student who selects this course also enroll into Chemistry-H.</td>
</tr>
<tr>
<td>Computer Science AP</td>
<td>#510AP</td>
</tr>
<tr>
<td>English Language &amp; Composition AP</td>
<td>#030AP</td>
</tr>
<tr>
<td>English Literature &amp; Composition AP</td>
<td>#040AP</td>
</tr>
<tr>
<td>Environmental Science AP</td>
<td>#322AP</td>
</tr>
<tr>
<td>Government &amp; Politics AP</td>
<td>#244AP - It is recommended that a student who selects this course also enroll into Contemporary Problems or Government-H.</td>
</tr>
<tr>
<td>Physics I AP</td>
<td>#319AP - It is required that a student who selects this course also enroll into Physics-H.</td>
</tr>
<tr>
<td>Psychology AP</td>
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<td>#220AP - It is required that a student who selects this course also enroll into U.S. History-H <em>(Pre AP).</em></td>
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# GARRETT COUNTY BOARD OF EDUCATION HONOR COURSES

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<td>English</td>
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<td>Leadership</td>
<td>Leadership Academy/JROTC (LET VII/VIII)-H</td>
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<tr>
<td>Math</td>
<td>Algebra II-H</td>
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<td>Elements of Calculus-H Pre-AP - A student who selects this course MUST also enroll into Calculus AB or Calculus BC in order to receive a Calculus credit.</td>
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<tr>
<td>Music</td>
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<td>Science</td>
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# GARRETT COUNTY BOARD OF EDUCATION MERIT COURSES

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<tr>
<td>Career &amp; Technology</td>
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<td>Advanced Marketing and Sales-M</td>
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<td>Auto Cad-M</td>
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<td>Intro to Engineering Design-M</td>
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<td>Principles of Biomedical Science-M</td>
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<td>Leadership</td>
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<tr>
<td>Math</td>
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<td>Music</td>
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<tr>
<td>World Languages</td>
<td>Spanish II/III-M</td>
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Courses are organized by department within this document. Please note that the guide reflects county offerings. Where a particular course is offered at only one site, the school at which it is offered is noted in parentheses with the course title. The courses taught at each high school are dependent upon student enrollment.

010 English I-H  
Course Number and Course Name  
9th Grade  
Grade Level Requirement  
Potential Credit(s)  

Course Description  
This class will include a research project resulting in a research paper of a specified length that meets MLA standards; this will involve both class instruction and independent work. Also included will be two to three novels and one Shakespearean drama; in addition, included will be a survey of short fiction, poetry, and non-fiction with emphasis on literary elements, and three to four five paragraph essays (may include argumentative, explanatory, etc…). Further instruction will include, but not be limited to, identification and application of parts of speech, sentence structure, types of sentences, mechanics, usage, spelling, and vocabulary  

NOTES: Describes any special and/or specific course information like state or AP testing, summer reading, taking multiple times, etc.

Garrett County Schools strive for academic excellence and for every student to challenge themselves throughout their high school career. Students are encouraged to pursue the highest level course possible whether it is a general, merit, honors, dual enrollment or an Advanced Placement course. A guideline when choosing an appropriate level course would be as follows; to maintain current level, a student is encouraged to have a 1.7 GPA or above in that same level course. To advance one level, a student is encouraged to have a 2.7 GPA or above in the previously attempted course. Questions concerning the
appropriate course and course level should be discussed with the student’s School Counselor.
**010 English I-H**  
*9th Grade*  
1 credit  
Aligned with the Common Core State Standards, this course will include activities that support the students’ mastery of skills in the areas of literary analysis, elements of writing, and effective language use. Listening and speaking skills will also be addressed. Students will be expected to read independently, discuss and write about a variety of substantive literary works from each of the four major literary genres including fiction, nonfiction, poetry, and drama. This will include at least four major works, two of which may be required prior to the start of the course. Students will use the writing process to complete written works including literary analysis essays, a narrative essay, and a substantial, MLA-format research paper resulting from the individual exploration of a student-selected topic. Mechanics instruction will coincide with the revision of student-generated, written responses. Grammar units including parts of speech and parts of the sentence will be taught with an emphasis on the usage of Standard English in writing and speaking. Finally, students will hone speaking and listening skills through a variety of opportunities in whole-class and small-group settings, including at least one presentation.

**011 English I-M**  
*9th Grade*  
1 credit  
Aligned with the Common Core State Standards, this course will include activities that support the students’ mastery of skills in the areas of literary analysis, elements of writing, and effective language use. Listening and speaking skills will also be addressed. Students will be expected to read independently, discuss and write about a variety of substantive literary works from each of the four major literary genres including fiction, nonfiction, poetry, and drama. This will include at least three major works, one of which may be required prior to the start of the course. Students will use the writing process to complete written works including literary analysis essays, a narrative essay, and a guided MLA-format research paper resulting from the individual exploration of a student-selected topic. Mechanics instruction will coincide with the revision of student-generated, written responses. Grammar units including parts of speech and parts of the sentence will be taught with an emphasis on the usage of Standard English in writing and speaking. Finally, students will hone speaking and listening skills through a variety of opportunities in whole-class and small-group settings, including at least one presentation.

**012 English I**  
*9th Grade*  
1 credit  
Aligned with the Common Core State Standards, this course will include activities that support the students’ mastery of skills in the areas of literary analysis, elements of writing, and effective language use. Listening and speaking skills will also be addressed. Students will be expected to read, discuss and write about a variety of substantive literary works from each of the four major genres including fiction, nonfiction, poetry, and drama. Students will use the writing process to complete written works including paragraphs, narrative essays, and a literary analysis essay. Mechanics instruction will coincide with the revision of student-generated, written responses. Grammar units including parts of speech and parts of the sentence will be taught with an emphasis on the usage of Standard English in writing and speaking. Finally, students will hone speaking and listening skills through a variety of opportunities in whole-class and small-group settings.

**013 English I (assigned by IEP Team)**  
*9th Grade*  
1 credit  
Aligned with the Common Core State Standards, this course will include activities that support the students’ mastery of skills in the areas of literary analysis, elements of writing, and effective language use. Listening and speaking skills will also be addressed. Students will be expected to read, discuss and write about a variety of substantive literary works from each of the four major genres including fiction, nonfiction, poetry, and drama. Students will use the writing process to complete written works including paragraphs, narrative essays, and a literary analysis essay. Mechanics instruction will coincide with the revision of student-generated, written responses. Grammar units including parts of speech and parts of the sentence will be taught with an emphasis on the usage of Standard English in writing and speaking. Finally, students will hone speaking and listening skills through a variety of opportunities in whole-class and small-group settings.

**014 Reading Essentials**  
*9th Grade*  
1 credit  
This class will include a variety of reading strategies, which includes previewing and predicting, using context clues, asking questions, visualizing, making connections, finding main ideas and detail, using text features, making inferences, identifying story elements, identifying cause and effect, taking notes, identifying point of view and bias, comparing and contrasting, problems and solutions, and applying a variety of vocabulary strategies in order to increase reading level and reading comprehension. Students successfully completing this course will receive an elective credit.

**020 English II-H**  
*10th Grade*  
1 credit  
Aligned with the Common Core State Standards, this course will include activities that support the students’ mastery of skills in the areas of literary analysis, elements of writing, and effective language use. Listening and speaking skills will also be addressed. Students will be expected to read independently, discuss and write about a variety of substantive literary works, spanning multiple genres, focusing on world literature. This will include at least four major works, two of which may be required prior to the start of the course. Students will use the writing process to complete written works including literary analysis essays, a narrative essay, and a substantial, MLA-format research paper resulting from the individual exploration of a student-selected topic. Mechanics instruction will coincide with the revision of student-generated, written responses. Grammar units including parts of speech, parts of the sentence, and sentence structure will be taught with an emphasis on the usage of Standard English in writing and speaking. Finally, students will hone speaking and
the sentence, and an exploration of phrases and clauses (with sentence combining) will be taught with an emphasis on the usage of Standard English in writing and speaking. Finally, students will hone speaking and listening skills through a variety of opportunities in whole-class and small-group settings, including at least one presentation.

NOTE: Students completing this course will be required to meet state testing requirements.

021 English II-M

10th Grade
1 credit
Aligned with the Common Core State Standards, this course will include activities that support the students’ mastery of skills in the areas of literary analysis, elements of writing, and effective language use. Listening and speaking skills will also be addressed. Students will be expected to read independently, discuss and write about a variety of substantive literary works, spanning multiple genres, focusing on world literature. This will include at least three major works, one of which may be required prior to the start of the course. Students will use the writing process to complete written works including literary analysis essays, a narrative essay, and a guided MLA-format research paper resulting from the individual exploration of a student-selected topic. Mechanics instruction will coincide with the revision of student-generated, written responses. Grammar units including a review of parts of speech and parts of the sentence, and an introduction to phrases and clauses (with sentence combining) will be taught with an emphasis on the usage of Standard English in writing and speaking. Finally, students will hone speaking and listening skills through a variety of opportunities in whole-class and small-group settings, including at least one presentation.

NOTE: Students completing this course will be required to meet state testing requirements.

024 Essentials of English

11th Grade
½ - 1 credit
The student will use high interest literature and hands-on activities in addition to more traditional methods to review basic reading and language skills. Students will also have an opportunity to learn and master test-taking strategies. The student will interpret and analyze literary elements of fictional prose, drama, and poetry exploring literature. The student will read at least one novel and a Shakespearean drama. The student will use the writing process to produce at least four formal essays. The student will be able to produce a project that reflects a clear understanding of the research topic and reflects a familiarity with MLA format. The student will be able to express him/herself orally through class discussion, reading aloud and oral presentations. The student will be able to identify and apply in writing phrases and clauses, types of sentences, mechanics, usage, spelling and vocabulary. NOTE: A student who has not successfully completed the English state testing requirement will be placed into this course for an elective credit.

030AP English Language and Composition AP

11th Grade
1 credit
***Mandatory Summer Reading Assignment
This course engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer’s purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing.

NOTE: Students enrolled in this class must take the National AP exam and may receive advanced placement credits at many colleges and universities

031 English III-M

11th Grade
1 credit
Aligned with the Common Core State Standards, this course will include activities that support the students’ mastery of skills in the areas of literary analysis, elements of writing, and effective language use. Listening and speaking skills will also be addressed. Students will be expected to read independently, discuss and write about a variety of substantive literary works, spanning multiple genres, focusing on American literature. This will include at least three major works, one of which may be required prior to the start of the course. Students will use the writing process to complete written works including literary analysis essays, a narrative essay, and a guided MLA-format research paper resulting from the guided exploration of a topic. Mechanics instruction will coincide with the revision of student-generated, written responses. A

listening skills through a variety of opportunities in whole-class and small-group settings.

NOTE: Students completing this course will be required to meet state testing requirements.

041 English IV-M

12th Grade
1 credit
Aligned with the Common Core State Standards, this course will
grammar unit reviewing parts of speech and phrases and clauses (with sentence combining) will be taught with an emphasis on the usage of Standard English in writing and speaking. Finally, students will hone speaking and listening skills through a variety of opportunities in whole-class and small-group settings, including at least one presentation.

**032 English III**

**033 English III (assigned by IEP Team)**

*11th Grade 1 credit*

Aligned with the Common Core State Standards, this course will include activities that support the students’ mastery of skills in the areas of literary analysis, elements of writing, and effective language use. Listening and speaking skills will also be addressed. Students will be expected to read, discuss and write about a variety of substantive literary works, spanning multiple genres, focusing on American literature. Students will use the writing process to complete written works including a literary analysis essay, a narrative essay, and an MLA-format research paper resulting from the guided exploration of a topic. Mechanics instruction will coincide with the revision of student-generated, written responses. Grammar units including parts of speech, and sentence structure, and phrases and clauses will be taught with an emphasis on the usage of Standard English in writing and speaking. Finally, students will hone speaking and listening skills through a variety of opportunities in whole-class and small-group settings.

**040AP English Literature and Composition AP**

*12th Grade 1 credit*

***Mandatory Summer Reading Assignment***

Course focuses on students’ individual and independent abilities to analyze literary works of both fiction and non-fiction found in short stories, novels, poetry, drama, and essays. Students will be able to identify various literary elements and recognize their impacts on the experience of literature. Students will write a variety of essays both in and out of class. The essays will demonstrate insight, analysis, research, and in-depth understanding. At least four novels and three dramas will be assigned. In addition students will complete a research paper of an assigned length.

**NOTE: Students enrolled in this class must take the National AP exam and may receive advanced placement credits at many colleges and universities**

include activities that support the students’ mastery of skills in the areas of literary analysis, elements of writing, and effective language use. Listening and speaking skills will also be addressed. Students will be expected to read independently, discuss and write about a variety of substantive literary works, spanning multiple genres, focusing on British literature. This will include at least three major works, one of which may be required prior to the start of the course. Students will use the writing process to complete written works including literary analysis essays and an MLA-format research paper resulting from the individual exploration of a student-selected topic. Mechanics instruction will coincide with the revision of student-generated, written responses. Grammar units will review, as necessary, previously-taught concepts, with an emphasis on the usage of Standard English in writing and speaking. Finally, students will hone speaking and listening skills through a variety of opportunities in whole-class and small-group settings, including at least one presentation.

**042 English IV**

**043 English IV (assigned by IEP Team)**

*12th Grade 1 credit*

Aligned with the Common Core State Standards, this course will include activities that support the students’ mastery of skills in the areas of literary analysis, elements of writing, and effective language use. Listening and speaking skills will also be addressed. Students will be expected to read, discuss and write about a variety of substantive literary works, spanning multiple genres, focusing on British literature. Students will use the writing process to complete written works including at least one literary analysis essay and an MLA-format research paper resulting from the guided exploration of a topic. Mechanics instruction will coincide with the revision of student-generated, written responses. Grammar units will review key usage skills in the areas of punctuation, mechanics, and sentence formation with an emphasis on the usage of Standard English in writing and speaking. Finally, students will hone speaking and listening skills through a variety of opportunities in whole-class and small-group settings.

**ENG101 Garrett College English 101 - Composition I-H**

**ENG 102 Garrett College English 102 -**

**091 Journalism Yearbook-M**

*10th Grade 1 credit*

Students will participate in all aspects of producing a school
**Introduction to Literature-H**  
**12th Grade**  
1 credit  
A course in writing expository and research-based essays that emphasize the development of clear theses through various rhetorical modes including description, narration, comparison/contrast, analogy, definition, analysis, classification, argumentation, and persuasion. Students will write and extensively revise before submitting for a grade a minimum of five expository papers, four to six typed pages in length. As writer voices develop, students use print and non-print sources to help support theses, leading to writing adhering to MLA guidelines. Second semester continues with critical writing about literature, including interpretation, analysis, and evaluation, as well as a critical review of issues common to the human experience. Students will become familiar with analytical approaches to writing about literature.

**050 Creative Writing**  
**11th Grade**  
1 credit  
The student will develop and demonstrate skills and techniques in various forms of creative expression, discovering and perfecting a personal style. An individual portfolio of writing will be developed. Selected writings by published authors will be examined and critiqued as skills are practiced. Students may enroll into this course multiple times for an elective credit.

**092 Journalism Newspaper-M**  
**10th Grade**  
1 credit  
Students will participate in all aspects of producing a school newspaper. Students will gain experience researching, writing, and editing news articles, using digital cameras, scanners, Microsoft Word, Adobe InDesign, Adobe Photoshop, and other digital photography editing programs; designing and laying out the newspaper for publication; and participating in advertising sales to support the costs of producing the newspaper.  
*NOTE: Students may enroll into this course multiple times for credit.*

**095 SAT Prep**  
**10th Grade**  
1 credit  
This class is designed to strengthen the student’s preparedness for taking the SAT. Students will complete practice exercises/activities in the following areas: Understanding the purpose of the SAT, the critical reading section, the writing section and the Mathematics section. Students will develop test-taking strategies specific to the types of test questions used on the SAT test. Students will get hands-on experience with practice tests based on the SAT model. Algebra 2 is strongly recommended.  
*Class is recommended for juniors and seniors.*  
*NOTE: Students may enroll into this course multiple times for an elective credit.*

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**MATHEMATICS**

**107 Algebra IA-M**  
**9th Grade**  
1 credit  
Students will demonstrate competence in the use of rational numbers in simplifying expressions, graphing equations and inequalities, solving equations, and inequalities, solving...
percent, mixture, and motion problems, operations on polynomials. Graphing calculators will be utilized. Upon completing this course at the high school, the student should enroll into Algebra 1B. 

Algebra credit is not received for this segment alone.

### 108 Algebra IB-M

**9th Grade**  
1 credit

Students will demonstrate competence in simplifying rational expressions, graphing linear functions in the coordinate plane, the graphing of linear equations using slope, x and y intercepts, use of the midpoint and distance formulas, solving second order systems of equations and inequalities, simplifying radical expressions, statistic and data analysis, factoring polynomials for use in solving quadratic equations and use of the quadratic formula. Students passing Algebra 1B-M at the high school receive 1 credit for Algebra I. Graphing calculators will be utilized.

**NOTE:** Students completing this course will be required to meet state testing requirements.

### 112 Algebra IA

### 113 Algebra IA (assigned by IEP Team)

**9th Grade**  
1 credit

Students will demonstrate competence in using a graphing calculator, learning problem solving techniques, using estimation, using proportions to solve problems, performing basic operations with signed numbers and vectors, using scientific notation, solving problems that involve powers and roots, using formulas, graphing linear and nonlinear equations, finding slopes and x and y intercepts, in addition to setting up and solving linear equations.

Algebra credit is not received for this segment alone.

### 134 Algebra IB

### 132 Algebra IB (assigned by IEP Team)

**9th Grade**  
1 credit

Students will use order of operations and mathematical properties to simplify and evaluate expressions, rational numbers and their application; solve equations and inequalities; statistics and data analysis operations on polynomials including factoring and work with functions and graphs. Students passing Algebra 1B at the high school receive 1 credit for Algebra I. Graphing calculators will be utilized.

**NOTE:** Students completing this course will be required to meet state testing requirements.

### 100 Essentials of Algebra

**10th Grade**  
½ - 1 credit

Students will use order of operations and mathematical properties to simplify and evaluate expressions, rational numbers and their application; solve equations and inequalities; statistics and data analysis operations on polynomials including factoring and work with functions and graphs. Graphing calculators will be utilized. This course covers in depth the curriculum required for passing the Maryland PARCC Algebra assessments.

**NOTE:** Passing this course does not count toward the 4 required mathematics credits needed for graduation. A student who has not successfully completed the Mathematics state testing requirement will be placed into this course for an elective credit.

### 114 Geometry-H

**9th Grade**  
1 credit

Students will demonstrate competence in the proof of geometric theorems (using both direct and indirect proofs). They will use the geometric theorems and postulates in solving problems involving parallel lines, congruent triangles, right triangles, quadrilaterals, parallelograms, and similar polygons. Problems involving right triangles, the Pythagorean Theorem, and basic trigonometric ratios will be explored. Students will solve problems involving circles and their related parts and determine the area and volume of polygons including the utilization of various geometric transformations. These geometric topics will be taught in great depth as this course is designed for the top mathematics student.

**NOTE:** Students completing this course will be required to meet state testing requirements.

### 115 Geometry-M

**9th Grade**  
1 credit

Students will demonstrate competence in the proof of geometric theorems and their use in solving problems involving parallel lines, congruent triangles, parallelograms, other quadrilaterals, and similar polygons, solving problems involving right triangles, the Pythagorean Theorem, basic trigonometric ratios, area, volume, and solving problems involving circles and their related parts.

**NOTE:** Students completing this course will be required to meet state testing requirements.

### 122 Geometry

### 123 Geometry (assigned by IEP Team)

**10th Grade**  
1 credit

Students will demonstrate competence in measuring in English and metric units, using geometric figures to solve work related problems, calculating perimeter, area and circumference, solving problems involving surface area and volume; interpreting and creating scale drawings; determining precision; using the Pythagorean formula finding amplitude wave length, period, and frequency of sine waves, applying geometry to two-dimensional figures, and constructing congruent and similar geometric figures.
NOTE: Students completing this course will be required to meet state testing requirements.

124 Algebra II-H

10th Grade 1 credit
Students will demonstrate competence in the following:
Simplification of algebraic expressions and solution of algebraic equations and inequalities within the sets of integers, rationals, irrationals, imaginaries, and complex numbers.
Solution of second and third order systems of simultaneous equations, graphing first and second degree functions, solutions of linear-quadratic and quadratic-quadratic systems, manipulations and graphing of exponential and logarithmic (common and natural) functions, several topics in trigonometry, and conic polynomial functions. Applications to real world problems are presented and graphing calculators are used extensively. The depth to which each topic is covered is considerably greater than that pursued in a regular Algebra II course.

NOTE: Students completing this course will be required to meet state testing requirements.

125 Algebra II-M

10th Grade 1 credit
Students will demonstrate competence in simplification of algebraic expressions and solution of algebraic equations and inequalities within the sets of integers, rationals, irrationals, imaginaries, and complexes, solution of second and third order systems of simultaneous equations, graphing first and second degree functions, solutions of linear-quadratic and quadratic-quadratic systems. Applications pertaining to real world problems are extensively presented. Additionally, exponential and logarithmic manipulations, special topics in trigonometry, the conics polynomial functions, and applications of each will be presented. Graphing calculators will be utilized.

NOTE: Students completing this course will be required to meet state testing requirements.

126 Algebra II

127 Algebra II (assigned by IEP team)

11th Grade 1 credit
Students will demonstrate competence in simplification of algebraic expressions and solution of algebraic equations and inequalities within the sets of integers, rationals, irrationals, imaginaries, and complexes, solution of second and third order systems of simultaneous equations, graphing first and second degree functions, solutions of linear-quadratic and quadratic-quadratic systems. Applications pertaining to real world problems are extensively presented in each section.

NOTE: Students completing this course will be required to meet state testing requirements.

130 Probability and Statistics-M

130AP Statistics-AP

11th Grade 1 credit
Students will be required to think about data and use statistical methods and formulas. Students will study distribution, correlations, data analysis, sampling, probability, relationships, significance tests, inference, two-variable data, regression and analysis of variance.

NOTE: Students completing the National AP exam at the conclusion of this course may potentially receive advanced placement credit at many colleges and universities.

135 Pre-Calculus-H

11th Grade 1 credit
Students will demonstrate competence in the following: manipulations and graphing of exponential and logarithmic functions (common and natural), the trigonometric functions, and applications of trig, inverses of trig functions, and solutions of equations, the straight line, the circle, the parabola, the ellipse, and the hyperbola, polar coordinate system, special topics in calculus, sequences and series, natures of graphs, and roots of polynomial functions. Graphing calculators will be used extensively in this course. The depth to which each topic is covered is considerably greater than that pursued in a regular Pre-Calculus course.

136 Pre-Calculus-M

11th Grade 1 credit
Students will demonstrate competence in logarithms, the trigonometric functions, and applications of trig, inverses of trig. functions and solutions of equations, the straight line, the circle, the parabola, the ellipse, and the hyperbola, polar coordinate system, and special topics in calculus. If time and status of the class permit, topics such as elementary sequences and series, natures of graphs, and roots of polynomials will be presented.

137 Calculus-M

11th Grade 1 credit
Students will demonstrate competence in the topics of functions, limits, continuity, differentiation, related rates, graphing of functions, optimization applications, antiderivatives, indefinite integrals, Riemann Sums, definite integrals, "U" substitutions, applications of integration, and special topics using transcendental functions such as $y = e^x$ and $y = \ln(x)$.

NOTE: This class is a second semester class. Students are strongly advised to take Pre-Calculus-M or Math Analysis-M during the first semester.

137APA Elements of Calculus-H (Pre-AP)

12th Grade 1 credit
This college-level course is the first half of a college calculus which provides a systematic introduction to the main principles of calculus and emphasizes the development of problem solving ability. This course includes functions and graphs, limits and continuity and intensive work in differential calculus.

**NOTE:** Students that select this course must also enroll in Calculus AB or Calculus BC in order to receive a Calculus credit.

### 137APB AP Calculus AB

**12th Grade**  
1 credit

This college-level course will prepare the student to take the AP Calculus AB test. The course includes functions and graphs, limits and continuity, differential calculus and integral calculus. The student will also receive instruction in special topics using transcendental functions such as derivatives and integrals of logarithmic functions, growth and decay problems, Newton’s Law of Cooling, L’Hopital’s Rule, and integrals and derivatives of inverse trig functions.

**NOTE:** The student enrolled in this course will be required to take the National AP Calculus AB exam and may potentially receive advanced placement credits at many colleges and universities.

### 137APC AP Calculus BC

**12th Grade**  
1 credit

This college-level course will prepare the student to take the AP Calculus BC test. The course includes functions and graphs, limits and continuity, differential calculus and integral calculus. The student will also receive instruction in special topics using transcendental functions such as derivatives and integrals of logarithmic functions, growth and decay problems, Newton’s Law of Cooling, L’Hopital’s Rule, and integrals and derivatives of inverse trig functions. Students will also investigate curves, derivatives, and integrals in the polar coordinate system. Investigations will include the Harmonic Series, Taylor Series, Maclaurin Series, alternating series with error bound, geometric series with applications and decimal expansion. Students will compute the derivative of vector functions and use the derivatives to model real-world problems.

**NOTE:** The student enrolled in this course will be required to take the National AP Calculus BC exam and may potentially receive advanced placement credits at many colleges and universities.

### SOCIAL STUDIES

#### 200 Government-H

**10th Grade**  
1 credit

The student will demonstrate an understanding of the underpinnings of democracy, political beliefs and behaviors of individuals; political parties and interest groups; mechanisms that facilitate the communication of interests and preferences by like-minded citizens; government institutions as well as institutional processes; civil liberties, civil rights, and public policy. Students will be evaluated through a variety of methods that may include frequent use of supplemental readings, significantly weighted essays, term papers, individual and small group projects, as well as in-depth
objective tests.  
NOTE: Students completing this course will be required to meet state testing requirements.

201 Government-M
10th Grade  1 credit
Students will demonstrate an understanding of state, local, and national government; understanding of the need for government; an understanding of the principles and rights of citizenship and politics and political behavior. Students will practice the analytical, research, writing and reading skills necessary to prepare students for successful college/university participation. Students will be evaluated through a variety of methods that may include frequent use of supplemental readings, significantly weighted essays, term papers, individual and small group projects, as well as in-depth objective tests.
NOTE: Students completing this course will be required to meet state testing requirements.

202 Government

203 Government (assigned by IEP Team)
10th Grade  1 credit
Students will demonstrate an understanding of state, local, and national government, understanding the need for government; an understanding of the principles and rights of citizenship; as well as the opportunities for and responsibilities of political participation and political behavior. Students will be evaluated through a variety of methods that may include regular use of supplemental readings, weighted essays, research papers, individual and group projects, as well as standard objective tests.
NOTE: Students completing this course will be required to meet state testing requirements.

230 Essentials of Government
10th Grade  ½ - 1 credit
Students will demonstrate an understanding of state, local, and national government, understanding the need for government; an understanding of the principles and rights of citizenship; as well as the opportunities for and responsibilities of political participation and political behavior. Students will be evaluated through a variety of methods that may include regular use of supplemental readings, weighted essays, research papers, individual and group projects, as well as standard objective tests.
NOTE: A student who has not successfully completed the Government state testing requirement will be placed into this course for an elective credit.

244AP U.S. Government and Politics-H
11th Grade  1 credit
In this college-level course, student will demonstrate an understanding of the underpinnings of democracy, political beliefs and behaviors of individuals; political parties and interest groups; mechanisms that facilitate the communication of interests and preferences by like-minded citizens; government institutions as well as institutional processes; civil liberties, civil rights, and public policy. Students should expect to use a college level reading text. Students will demonstrate their analytical and factual knowledge by performing analysis of extensive supplemental readings, timed testing, heavily weighted essay examination, demanding objective tests, and seminar participation.
NOTE: Students that select this course MUST also enroll into AP Government and Politics.

244APB U.S. Government and Politics-AP
11th Grade  1 credit
In this college-level course, student will demonstrate an understanding of the underpinnings of democracy, political beliefs and behaviors of individuals; political parties and interest groups; mechanisms that facilitate the communication of interests and preferences by like-minded citizens; government institutions as well as institutional processes; civil liberties, civil rights, and public policy. Students should expect to use a college level reading text. Students will demonstrate their analytical and factual knowledge by performing analysis of extensive supplemental readings, timed testing, heavily weighted essay examination, demanding objective tests, and seminar participation.
NOTE: The student enrolled in this course will be required to take the National AP exam and may potentially receive advanced placement credits at many colleges and universities.

210 World History-H
11th Grade  1 credit
Students will demonstrate an understanding of the history and diversity of the cultures of the world, the reality of human interdependence and the need for world cooperation in the modern era (1400 to present day). The student will also analyze the historical development of political processes and economic principles, as well as geographic, technological, and environmental influences in history. Students will practice the analytical, research, writing and reading skills necessary to continue their studies at the AP level. Students will demonstrate their analytical and factual knowledge by performing analysis of extensive supplemental readings, timed testing, heavily weighted essay examination, individual and group projects demanding objective tests, and seminar participation.

211 World History-M
11th Grade  1 credit
Students will demonstrate an understanding of the history and diversity of the cultures of the world, the reality of human interdependence, and the need for world cooperation in the modern era (1400 to present day). The student will also analyze the historical development of political processes and
economic principles, as well as geographic, technological, and environmental influences in history. Students will practice the analytical, research, writing and reading skills necessary to prepare students for successful college/university participation. Students will be evaluated through a variety of methods that may include frequent use of supplemental readings, significantly weighted essays, term papers, individual and small group projects, and in-depth objective tests.

212 World History
213 World History (assigned by IEP Team)
11th Grade  1 credit
Students will demonstrate an understanding of the history and diversity of cultures of the world, the reality of human interdependence and the need for world cooperation in the modern era (1400 to present day). The student will also analyze the historical development of political processes and economic principles, as well as geographic, technological, and environmental influences in history. Students will be evaluated through a variety of methods that may include regular use of supplemental readings, weighted essays, individual and group projects, as well as standard objective tests.

220 U.S. History-H
9th Grade  1 credit
This course will examine the cultural, social, economic and political event and relationships that have shaped the development of the United States from 1865 through the contemporary United States. Students will practice the analytical, research, writing and reading skills necessary to continue their studies at the AP level. Students will demonstrate their analytical and factual knowledge by performing analysis of extensive supplemental readings, timed testing, heavily weighted essay examination, individual and group projects demanding objective tests, and seminar participation.

NOTE: Students completing this course will earn 5 hours toward the Service Learning graduation requirement.

244AP U.S. History-AP
244APB U.S. History-AP
9th Grade  1 credit
This college-level course will examine the cultural, social, economic and political event and relationships that have shaped the development of the United States from 1865 through the contemporary United States. US History before 1865 will be reviewed. Students should expect to use a college level reading text. Students will demonstrate their analytical and factual knowledge by performing analysis of extensive supplemental readings, timed testing, heavily weighted essay examination, demanding objective tests, and seminar participation.

NOTE: The student enrolled in this course will be required to take the National AP exam and may potentially receive advanced placement credits at many colleges and universities. Students completing this course will earn 5 hours toward the Service Learning graduation requirement.

221 U.S. History-M
9th Grade  1 credit
This course will examine the cultural, social, economic and political event and relationships that have shaped the development of the United States from 1865 through the contemporary United States. Students will practice the analytical, research, writing, and reading skills necessary to prepare students for successful college/university participation. Students will be evaluated through a variety of methods that may include frequent use of supplemental readings, significantly weighted essays, term papers, individual and small group projects, and in-depth objective tests.

NOTE: Students completing this course will earn 5 hours toward the Service Learning graduation requirement.

222 U.S. History
223 U.S. History (assigned by IEP Team)
9th Grade  1 credit
This course will examine the cultural, social, economic and political events and relationships that have shaped the development of the United States from 1865 through the contemporary United States. Students will be evaluated through a variety of methods that may include regular use of supplemental readings, weighted essays, individual and group project, as well as standard objective tests.

NOTE: Students completing this course will earn 5 hours toward the Service Learning graduation requirement.

240A Psychology I-M
11th Grade  1 credit
The student will demonstrate a fundamental knowledge of: the nature of psychology as a discipline; the components and uses of theories on learning and cognitive processes; the workings of the mind and body and the effects on the biological basis for behavior; the theories of the life span and
developmental psychology. Students will practice the analytical, research, writing, and reading skills necessary to prepare students for successful college/university participation. Students will be evaluated through a variety of methods that may include frequent use of supplemental readings, significantly weighted essays, term papers, individual, small group projects, and in-depth objective tests.

240B Psychology II-M
11th Grade 1 credit
The student will demonstrate a fundamental knowledge of the nature of psychology as a discipline. The student will also be knowledgeable in personality development and the various types of psychological testing. Knowledge of how humans make adjustments in their lives and problems encountered when inappropriate adjustments are not made. Integral part of Psychology II will be an understanding of how to do psychological research. The process of human interaction and human relations are also stressed. Students will practice the analytical, research, writing, and reading skills necessary to prepare students for successful college/university participation. Students will be evaluated through a variety of methods that may include frequent use of supplemental readings, significantly weighted essays, term papers, individual, small group projects, and in-depth objective tests.

240AP Psychology-AP
11th Grade 1 credit
*** Must have taken Psychology I-M ***
In this college-level course students will be able to understand the meaning of the discipline of psychology, psychological and physiological processes; biological foundations of behavior, intelligence, emotions, sensations, and perception processes of learning, human growth and development. Students should expect to use a college level reading text. Students will demonstrate their analytical and factual knowledge by performing analysis of extensive supplemental readings, timed testing, heavily weighted essay examination, demanding objective tests, and seminar participation.

NOTE: The student enrolled in this course will be required to take the National AP exam and may potentially receive advanced placement credits at many colleges and universities.

244 Contemporary Problems
11th Grade 1 credit
The student will be able to identify and discuss current problems in Contemporary America. The scope will be divided between issues of Foreign and Domestic concerns. Emphasis will be placed on historical background, current issues, and the outlook for the future. Extensive debate of the media and current events will drive the discussion.

249 Student Service Alliance
9th Grade 1 credit
The student will demonstrate an interest in service opportunity within the community and develop service skills by practical application. This course includes a variety of hands-on activities within the school environment.

NOTE: A student may be enrolled in this course multiple times for an elective credit.

265 Affective Education (assigned by IEP Team)
9th Grade 1 credit
The overall goal of this course is to provide basic developmental skills needed for successful emotional and social functioning in a variety of settings (school, home, community). Course topics will include self-awareness, effective communication, social/interpersonal relationships, problem-solving and decision-making. Students will identify personal strengths and apply them toward taking responsibility for their own actions. A major component of the instruction revolves around setting short and long-term goals.

NOTE: A student may be enrolled in this course multiple times for an elective credit.

614 Economics-M
10th Grade 1 credit
This course will give students a greater understanding of economic principles and practices ranging from the viewpoint of the individual consumer or small business owner and help students see connections to the global economy. Course content includes the study of supply and demand, forms of business ownership, labor unions, government finances and influence on the economy, inflation and business cycles, and an introduction to understanding investing principles. The course relates history and politics to the study of economics.

*Note: Students passing this course shall earn the required financial literacy graduation credit.

300 Earth Science-H
9th Grade 1 credit
This course is designed for students planning to attend a four-year college or university. Students will develop a thorough understanding of geology, oceanography, meteorology, and astronomy comparing the physical and structural features of the Earth and the processes that produced them. Multiple research projects will be conducted throughout the course. Students will be required to complete an original research project as a component of this course.

301 Earth Science-M
9th Grade 1 credit
Students who plan to attend a 2 or 4 year college as part of their career pathway will obtain an in-depth understanding of
geology, oceanography, meteorology and astronomy. Students will be expected to design and complete an original research project for this course.

**302 Earth Science**
**303 Earth Science (assigned by IEP Team)**
9th Grade 1 credit
Students who will be working after high school as part of their career pathway will obtain an understanding of geology, oceanography, meteorology and astronomy.

**310 Biology-H**
9th Grade 1 credit
This course is designed for students planning to attend a four-year college or university. Students will develop a thorough understanding of living organisms and their co-existence, the diversity among living things and the impact of human intervention in the nature environment. The major topics of study include: biochemistry, genetics, evolution and ecology. Multiple research projects will be conducted throughout this course with students being required to design and complete an original research project.

**Note:** Students completing this course will be required to meet state testing requirements.

**311 Biology-M**
10th Grade 1 credit
Students who plan to attend a 2 or 4 year college as part of their career pathway will demonstrate an understanding of living organisms and their coexistence; the diversity among living things; and the impact of human intervention in the natural environment. This course is designed to give students in level 1 career pathways a general understanding of biological concepts. Topics will include a basic understanding of biochemistry, cells, genetics, evolution, and ecology. Instruction will emphasize the relationship of these topics to the student as a biological organism as well as their interaction with an impact on the environment and other organisms. Students may be asked to complete a research project.

**Note:** Students completing this course will be required to meet state testing requirements.

**312 Biology**
**313 Biology (assigned by IEP Team)**
10th Grade 1 credit
Students who will be working after high school as part of their career pathway will demonstrate an understanding of living organisms and their coexistence; the diversity among living things; and the impact of human intervention in the natural environment. This course is designed to give students in level 1 career pathways a general understanding of biological concepts. Topics will include a basic understanding of biochemistry, cells, genetics, evolution, and ecology. Instruction will emphasize the relationship of these topics to the student as a biological organism as well as their interaction with an impact on the environment and other organisms. Students may be asked to complete a research project.

**Note:** Students completing this course will be required to meet state testing requirements.

**330 Essentials of Biology**
10th Grade ½ - 1 credit
Students will demonstrate an understanding of living organisms and their coexistence; the diversity among living things; and the impact of human intervention in the natural environment. This course is designed to give students a general understanding of biological concepts. Topics will include a basic understanding of biochemistry, cells, genetics, evolution, and ecology. Instruction will emphasize the relationship of these topics to the student as a biological organism as well as their interaction with an impact on the environment and other organisms. Students may be asked to complete a research project.

**Note:** A student who has not successfully completed the Biology state testing requirement will be placed into this course for an elective credit.

**321 Biology II-H (Pre-AP)**
10th Grade 1 credit
***Must have taken or be enrolled in a Chemistry course***
This pre-college level course is developed around a systematic approach to the concepts of biology. Students will gain a deeper understanding of living organisms and their coexistence, the diversity among living things and the impact of human intervention in the nature environment. At least one research project and an individual science fair project will be required.

**Note:** This course is designed to prepare students to enroll in AP level courses and is taught at a rigorous level. Summer assignments may be required.

**321AP Biology II-AP**
10th Grade 1 credit
***Must have taken or be enrolled in a Chemistry course***
AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes — energy and communication, genetics, information transfer, ecology, and interactions. Multiple research projects will be conducted.
throughout the course.

NOTE: Students will complete the National AP exam at the conclusion of this course and potentially may receive advanced placement credits at many colleges and universities. Summer assignments may be required.

314AP Chemistry-AP
10th Grade 1 credit
This college-level course is developed around a systematic approach to the principles of chemistry. The major topics of study include: chemical issues and problems, thermodynamics, thermo chemistry, chemical equilibrium and kinetics. Emphasis will be given to developing competency in solving chemical calculations and problems. Multiple projects will be conducted throughout the course.

NOTE: Students will complete the National AP exam at the conclusion of this course and potentially may receive advanced placement credits at many colleges and universities. Summer assignments may be required.

315.5 Chemistry-H
10th Grade 1 credit
This college-level course is developed around a systematic approach to the principles of chemistry. The major topics of study include: physical and chemical properties of matter, changes in matter and energy, elements and compounds (structure, bonding and reactivity), physical behavior of gases, the states and structures of matter and chemical reactions. Emphasis will be given to developing competency in solving chemical calculations and problems. Multiple research projects will be conducted throughout the course with students being required to design and complete an original research project.

NOTE: This course is designed to prepare students to enroll in AP level courses and is taught at a rigorous level. Summer assignments may be required.

315 Chemistry-M
10th Grade 1 credit
An introduction to the study of matter and energy designed to give the student a background in chemical theory and quantitative relationships, including atomic and molecular structure, chemical formulas and equations and stoichiometry. Laboratory experiences familiarize the student with simple reactions and laboratory equipment. Students will be expected to design and complete an original research project.

317 Chemistry in the Community
316 Chemistry in the Community (assigned by IEP Team)
11th Grade 1 credit
Within each Chem. Comm. unit, students will find issues and concerns affecting their life and community. They will become involved in activities exploring how chemistry is related to these topics. At the close of each unit students will apply their chemical knowledge to a specific problem; to describe or propose solutions; and to evaluate the consequences of their solutions.

319AP Physics I-AP
11th Grade 1 credit
This college level course is developed around a systematic approach to the principles of physics. This algebra-based introductory physics course explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry based learning, students will develop scientific critical thinking and reasoning skills. This course will require a good understanding of previously learned algebraic and geometric skills in relation to scientific problems. Multiple research projects will be conducted throughout the course with students being required to design and completing an original research project.

NOTE: Students will complete the National AP exam at the conclusion of this course and potentially may receive advanced placement credits at many colleges and universities. Summer assignments may be required.

318.5 Physics-H
11th Grade 1 credit **
Must have taken or be concurrently enrolled in pre-calculus.
Students who are planning to attend a 4 year college will demonstrate understanding of and an ability to investigate physical concepts correlating to an introductory algebra-based course physics. This course explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry based learning, students will develop scientific critical thinking and reasoning skills. This course will require a good understanding of previously learned algebraic and geometric skills in relation to scientific problems. This course will require a good understanding of previously learned algebraic and geometric skills in scientific problems. Students completing this course will be expected to design and complete an original research project.

NOTE: This course is designed to prepare students to enroll in AP level courses and is taught at a rigorous level. Summer assignments may be required.

318 Physics-M
11th Grade 1 credit
** Must have taken or be concurrently enrolled in pre-calculus.
Students who are planning to attend a 2 or 4 year college will demonstrate an understanding of and an ability to investigate physical concepts including vectors, dynamics, kinematics, universal gravitation, momentum, work and power, kinetic and potential energy. This course will require a good understanding of previously learned algebraic and geometric skills in scientific problems. Students completing this course
will be expected to design and complete an original research project.

322AP Environmental Science-AP
10th Grade 1 credit
This college-level course in environmental science offers the rigor of a college class. The goal of the course is to provide students with the scientific principles, concepts, and methodologies that are required for them to understand the interrelationships of the natural world. The course helps students to identify and analyze both natural and human-induced environmental problems. It enables them to learn how to assess the risks associated with these problems and evaluate alternative solutions for resolving and preventing them. From a personal perspective, in today’s world it is of the utmost importance to prepare our students to become the environmentally literate citizens of tomorrow.

NOTE: Students will complete the National AP exam at the conclusion of this course and potentially may receive advanced placement credits at many colleges and universities. Summer assignments may be required. Offered fall semester only.

322 Environmental Science-M
9th Grade 1 credit
Students will demonstrate an understanding of the interdependence between human activity and the natural environment, the ability to use analytical thinking and problem solving skills to analyze and predict the effects of global problems such as pollution, deforestation, desertification, waste disposal, energy use, and the ability to provide alternative solutions. Multiple research projects will be conducted throughout the course with students being required to design and complete an original research project.

324 Environmental Science
323 Environmental Science (assigned by IEP Team)
11th Grade 1 credit
Students will develop an understanding of the interdependence between human activity and the natural environment the ability to apply problem solving skills to analyze and predict global issues related to pollution, deforestation, desertification, waste disposal and energy use.

325 Principles of Technology I
11th Grade 1 credit
Principles of Technology I is an applied physics course which is designed to make scientific concepts understandable through hands-on learning. Students must have strong math skills to experience success in this course.

326 Principles of Technology II
11th Grade 1 credit
This course is designed as a continuation of Principles of Technology I. Students will continue to explore the unifying principles of physics along with the associated math concepts as they apply to the mechanical, fluid, electrical, and thermal systems.

BIO150 Garrett College Biology 150 - General Ecology-H
12th Grade 1 credit
Basic principles of ecology. Interrelationships between animals and plants and their natural environments. Special emphasis is placed on the structure and composition of terrestrial and aquatic communities and population dynamics. The course is designed to provide the basic knowledge necessary for further studies in Wildlife Management.

WORLD LANGUAGES

420 German I (SHS Only)
9th Grade 1 credit
Students begin to understand and speak German through repetition and variation, stressing proper German pronunciation and intonation. The vocabulary acquired deals with realistic, lifelike situations. Students are introduced to German civilization and culture. As conversational skills are improved, grammatical structures are introduced, practiced, and internalized.

421 German II-M (SHS Only)
9th Grade 1 credit
Students improve comprehension and spoken and written skills, learn more advanced grammatical structures, and read more coherently and
intelligence in German. Students participate in frequent structured conversations and continue to learn about Germany and other German-speaking countries.

**422 German III-M (SHS Only)**

**10th Grade**
1 credit

Students improve their oral, reading, and writing skills. Reading selections increase in difficulty. Students continue to learn about German culture and civilization. Grammar and composition also continue to be emphasized at an advanced level. At this level students are expected to be able to work independently, especially if the class group is combined with another level during the same class period.

**423 German IV-H (SHS Only)**

**11th Grade**
1 credit

Students increase their knowledge of grammatical structure, writing, and formal and informal vocabulary through frequent usage. Stress is placed on advanced conversation, independent reading, and original composition. Readings include literature and periodicals. The students also study German history and geography. At this level students are expected to be able to work independently, especially if the class group is combined with another level during the same class period.

**436 Spanish I**

**9th Grade**
1 credit

Students begin to understand and speak Spanish through repetition and variation, stressing proper Spanish pronunciation and intonation. The vocabulary acquired deals with realistic, lifelike situations. Students are introduced to the civilization and culture of Spanish-speaking areas of the world. As conversational skills are improved, grammatical structures are introduced, practiced, and internalized.

**437 Spanish II-M**

**9th Grade**
1 credit

Students improve comprehension and spoken and written skills, learn more advanced grammatical structures and read more coherently and intelligently in Spanish. Students participate in frequent structured conversations and continue to learn about Spanish-speaking countries.

**438 Spanish III-M**

**10th Grade**
1 credit

Students improve their oral, reading, and writing skills. Reading selections increase in difficulty. Students continue to learn about Spanish-speaking countries and their cultures. Grammar and composition also continue to be emphasized at an advanced level. At this level students are expected to be able to work independently, especially if the class group is combined with another level during the same class period.

**439 Spanish IV-H**

**11th Grade**
1 credit

Students increase their knowledge of grammatical structure, writing and formal and informal vocabulary through frequent usage. Stress is placed on advanced conversation, independent reading, and original composition. Readings include literature and periodicals. The students also study geography and history of Spanish-speaking countries. At this level students are expected to be able to work independently, especially if the class group is combined with another level during the same class period.

**439AP Spanish-AP**

**11th Grade**
1 credit

The AP Spanish Language and Culture course has been designed to provide advanced high school students with a rich and rigorous opportunity to study the language and culture of the Spanish-speaking world that is approximately equivalent to an upper-intermediate college or university Spanish course. This course strives to promote both fluency and accuracy in language use and not to overemphasize grammatical accuracy at the expense of communication. In order to best facilitate the study of language and culture, the course is taught in the target language. The course also engages students in an exploration of culture in both contemporary and historical contexts. The course develops students’ awareness and appreciation of products, both tangible (e.g., tools, books) and intangible (e.g., laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions that underlie both practices and products).

(source: apcentral.collegeboard.com)

Note: Students will complete the National AP exam at the end of this course may potentially receive advanced placement credit at many colleges and universities. Summer assignments may be required.

**FINE ARTS**

**441 Art I**

**9th Grade**
1 credit

The student will define and use the basic design elements in two and/or three dimensional explorations. The student will be able to gain and/or improve skills in use of art media and tools. The student will survey the historical/cultural aspects of each study unit and develop a concept of art criticism.

**442 Art II**

**10th Grade**
1 credit

The student will exhibit a wide knowledge and use of design elements and principles in the production of art. The student will demonstrate skill in analyzing and interpreting art work. The student will recognize the historical importance of areas studied. Emphasis is placed on a creative and imaginative use of the basic types of painting, sculpture, drawing, and graphic arts. Recommended for serious, more advanced students.

**443 Advanced Art: Drawing & Painting-M**

**10th Grade**
1 credit

The student will develop a proficiency in technique in drawing and painting. The student will exhibit proficiency in the use of tools and
materials. The student will demonstrate knowledge of art criticism and appreciation. Emphasis will be placed on art careers and portfolio development. The student will maintain a sketch or plan book as a source of information for the development of in-depth art works. The student will make critical decisions and analysis in the development of technique. Recommended for serious art students.

444 Advanced Art: Sculpture & Printmaking-M  
10th Grade  1 credit  
The student will be able to develop a proficiency in technique in sculpture and printmaking. The student will be able to exhibit proficiency in the use of tools and materials used in the area of in-depth study. The student will demonstrate in-depth knowledge and appreciation of the historical/cultural aspect of a chosen area of art. The student will maintain a sketch or plan book as a source of information for the development of in-depth art works. The student will make critical decisions and analysis in the development of technique. Recommended for serious art students.

446 Art Appreciation-M  
10th Grade  1 credit  
The student will demonstrate awareness of changing styles in art from prehistory through contemporary art and relate these changing styles to other historical events and cultural aspects of human experience. The student will develop skill in perceiving, analyzing, and interpreting art. The student will learn how artists use the materials, elements, and principles of design to communicate the content of their work. Studio activities are included.

GC103 Garrett College Art 103 –  
Art Appreciation-H  
10th Grade  1 credit  
A course that introduces a student to art in its various forms and develops an appreciation of the visual arts. The study includes a survey of media, styles and structures, theories and criticism of art.

447AP Art History-AP  
11th Grade  1 credit  
This is an introductory college-level course in the history of art (primarily Western cultures). The student will demonstrate knowledge of artists, schools and movements; chronological periods and specific dates; the subjects, styles, and techniques of architecture, sculpture, painting, and other art forms. The student will develop skill in perception, analysis and interpretation of artwork and will learn to articulate what he/she sees or experiences. This course is recommended for serious art students.  
NOTE: Students will complete the National AP exam at the conclusion of this course and potentially may receive advanced placement credits at many colleges and universities.

448 Studio Art-M  
11th Grade  1 credit  
The student will work independently in chosen areas agreed upon by the student and the teacher. The student will do in-depth work in specific art areas. The student will be able to exhibit proficiency in the use of tools and materials used in the area of in-depth study. The student will maintain a sketch or plan book as a source of information for the development of art works. Recommended for serious art students.

449AP Studio Art-AP  
11th Grade  1 credit  
AP program in Studio Art is intended for highly motivated students who are seriously interested in the study of art. Student should be made aware that AP work involves significantly more commitment and accomplishment than the typical high school course and that the program is not for the casually interested. Students may choose Studio Drawing portfolio, 2-D or 3-D portfolio. The course involves research and work outside of the classroom. This course is recommended for serious art students.  
NOTE: The student enrolled in this course will be required to take the National AP exam and may potentially receive advanced placement credits at many colleges and universities.

451 Chorus  
9th Grade  1 credit  
This is a performance oriented, co-curricular course designed to improve musicianship and skills as vocalists. Students will demonstrate knowledge of basic music skills through warm-ups, reading lessons, tonal recognition, balance within and among selections, choral blend, diction, posture, proper breathing techniques, and sight singing. Students will learn about the skill of singing, music theory and history, while participating in different styles of music in preparation for public performance: classical, jazz, pop, show, and dance. Students will gain an appreciation of music from various cultures. Performance etiquette and listening skills are refined.  
NOTE: Students may enroll into this course multiple times for credit.

456 Advanced Choir-H  
9th Grade  1 credit  
This advanced musical ensemble is a co-curricular course designed for students to experience and perform classical through popular music with and without accompaniment (a cappella). Students will extend their knowledge of singing, music theory and history, reading lessons, and tonal recognition. Vocal quality will be reinforced through balanced instruction that included studying works from historical, aesthetic, and critical perspectives. Students will develop the ability to understand, appreciate, perceive, create, and respond to music. Multiple public performances will be scheduled throughout the year.  
NOTE: Students may enroll into this course multiple times for credit.

457 Show Choir-M  
9th Grade  1 credit  
This performance based, co-curricular class allows students to learn about musicianship, music theory, and music history while exploring music of many different styles. Principles of choreographic structure will be studied and applied to incorporate singing, dancing, acting, costuming, and staging that is appropriate for the music being performed. This highly advanced musical performance ensemble will be performing several times throughout the year.
NOTE: Students may enroll into this course multiple times for credit.

452A Instrumental Ensemble (Band)
9th Grade 1 credit
Instrumental Ensemble is a performance oriented, co-curricular class designed to help students improve their musicianship and skills on their instrument. Students will be given assignments, etudes, and technical studies to assist in achieving this goal. Students will work on woodwind and brass ensemble pieces, concert and marching band music, proper rendition of scales and rhythms, music scores, in addition to music theory, history, and listening as they experience different styles of music: classical, jazz, pop, show, and dance. Students will be performing at school and community events including football games, parades, and competitions. This course is compatible but not sequential with Percussion Ensemble.

NOTE: Students may enroll into this course multiple times for credit.

452B Percussion Ensemble (Band)
9th Grade 1 credit
Percussion Ensemble is a performance oriented, co-curricular class designed to help students improve their musicianship and skills on their percussion instrument. Students will be expected to learn several percussion instruments in a logical and sequential pattern. Students will be given assignments, etudes, and technical studies to assist in achieving this goal. Students will work on woodwind and brass ensemble pieces, concert and marching band music, proper rendition of scales and rhythms, music scores, in addition to music theory, history, and listening as they experience different styles of music: classical, jazz, pop, show, and dance. Students will be performing at school and community events including football games, parades, and competitions. This course is compatible but not sequential with Instrumental Ensemble.

NOTE: Students may enroll into this course multiple times for credit.

452C Stage Ensemble (Band)
9th Grade 1 credit
Stage Ensemble is a performance oriented, co-curricular class designed to help students improve their musicianship and skills on their band instrument. Students will be given assignments, etudes, and technical studies to assist in achieving this goal. Students will work on woodwind and brass ensemble pieces, concert and marching band music, proper rendition of scales and rhythms, music scores, in addition to music theory, history, and listening as they experience different styles of music: classical, jazz, pop, show, and dance. Students will be performing at school and community events. This course is compatible but not sequential with Instrumental or Percussion Ensemble.

NOTE: Students may enroll into this course multiple times for credit.

453 Concert Ensemble-M (Band)
9th Grade 1 credit
A highly advanced musical performance ensemble where students will experience a wide variety of music literature; learn more about musicianship; increase knowledge of music theory and history; practice ensemble intonation and balance; study the proper rendition of scales and rhythms; and learn other aspects of music scores. Creativity, improvisation, and refined aural skills are fostered. Students will be performing at concerts, assemblies, and other school and community events.

NOTE: Students may enroll into this course multiple times for credit.

458 Color Guard
9th Grade 1 credit
This performance oriented, co-curricular class is designed for those students who wish to participate in the marching band color guard. Principles of choreographic structure will be studied and applied. Students will learn and develop techniques to help them succeed on the marching field by engaging in independent and collaborative learning activities designed to help with the visual interpretation of a musical performance. Students will gain technical and stylistic proficiency through the performance of a routine. Students will be expected to work with various guard equipment such as rifles, sabers, and flags. This course is compatible but not sequential with Instrumental and Percussion Band.

NOTE: Students may enroll into this course multiple times for credit.

450 Beginning Musicianship
9th Grade 1 credit
Students will be taught to read music and notation, harmony, basic fundamentals of music, tone production, select and play an instrument or sing while striving for proper technique and sound quality. Students will experience listening, responding, perceiving, and understanding musical structure through the study of various types of musical literature. This is not a public performance-based course.

454 Music Appreciation
9th Grade 1 credit
Students will increase their knowledge and understanding of music from its origin until present day as they consider Medieval, Baroque, Classical, Romantic, and Twentieth Century musical styles; participants in each movement; the characteristics of each style; and the origin of each style. Study will be devoted to properties of sound, fundamentals of music, voice, conducting, ethnomusicology, careers in music, electronic music, and music in the media. Activities in this class include, but are not limited to: written projects, class lectures, listening assignments, and guest performances. This is not a public performance-based course.

455 Music History and Theory-H
10th Grade 1 credit
Advanced music students will enjoy the opportunity to have a more in depth understanding of the roots in music’s history. Students will enhance their understanding of the fundamentals of music by comparing music to the history of other arts, as well as from a cultural perspective. Students study ear-training; sight-singing; the elements of music; musical analysis; harmony, rhythm and form; and composition. Students will become familiar with instrumental and vocal genres by listening to, describing and analyzing compositions.

460 Class Piano I
9th Grade 1 credit
This introductory class introduces students to the proper posture and hand positioning for piano playing. The relationship between historical events and musical styles will be introduced with students studying different composers and performers. Students will critique piano performances.

**465 Class Piano II**

*9th Grade 1 credit*

This advanced piano course is designed for students to experience and perform piano compositions. Students will extend their knowledge of the history and styles of piano performances and composers. Students will develop the ability to understand, appreciate, perceive, create, and respond to musical compositions. Students will perform to an audience in a recital setting.

**060 Theatre Arts I**

*9th Grade 1 credit*

Theatre I students will gain an introduction to Theatre Arts through history, reading plays, acting exercises in voice and movement and participation in a full production on stage. Through historical lectures and research projects students will gain an understanding of the evolution of theatre and its importance in society. By reading classic works from various playwrights and genres students will gain a well-rounded perspective of the art of dramatic literature. Students will learn to work as an ensemble to create scenes, expressing emotions using movement and voice. Students will also work to produce a full length performance with their classmates that they will perform for their fellow students as well as the community.

**474 Health**

*9th Grade ½ credit*

Students will demonstrate knowledge of and understanding of wellness in the areas of growth and development, mental and emotional health, physical fitness, family relationships, nutrition, disease prevention, first aid and safety, consumer health, substance use and abuse, and community and environmental health.

**063 Theatre Arts III-II (Garrett College 104/105)**

*12th Grade 1 credit*

Students will continue the study of theatre arts with emphasis on stagecraft through lecture and practical experience. Basic principles of acting concentrating on production; organization and theatre space; tools and materials; scenery construction; basic scene painting; stage properties; relaxation and concentration; movement and mime; imagination and improvisation; dramatic action; and knowledge of theatrical space. This two semester, one-credit course will be taught at Garrett College (THE 104 Fundamentals of Technical Theatre: Stagecraft and THE 105 Fundamentals of Acting I).

**064 Theatre Arts IV-II (Garrett College 101/107)**

*12th Grade 1 credit*

Students will continue the study of theatre arts by with emphasis on history; theatrical forms; plays and playwrights; play analysis; theatre arts and crafts; character analysis and creation; voice development and movement; extending the basic elements of the communication process; techniques of interpersonal communication; elements of speech composition and presentation skills as applied to informative and persuasive speaking. Empathic and comic techniques will be developed through scene study and performance. This two semester one-credit course will be taught at Garrett College (THE 101 Introduction to the Theatre and THE 107 Fundamentals of Acting II).

**HEALTH AND PHYSICAL EDUCATION**

**475 Physical Education**

*9th Grade ½ credit*

Students will demonstrate an appropriate level of physical fitness; a positive attitude toward physical activity; a knowledge and understanding that participation in a variety of physical activities can lead to life-long physical fitness; basic skills related to a variety of physical activities; positive social and emotional behavior; and understanding of how participation in physical activities contributes to healthy
living; a value on physical activity as a means of self-realization and fulfillment; and to value healthful life styles.

476 Physical Activity
10th Grade 1 credit
Students will demonstrate knowledge and appreciation of the skills required in a variety of activities, the techniques and fundamentals of a variety of activities, work toward an appropriate level of physical fitness, an understanding of how participation in physical activities contributes to healthful living, and safety and sportsmanship.

NOTE: Students may enroll into this course multiple times for credit.

477 Weight Training
10th Grade 1 credit
Students will engage in a personal fitness program and demonstrate improved strength and muscular endurance; cardiovascular efficiency; muscular power; willingness to participate in a variety of physical activities; the value of a life-long fitness program; safety; and improved respect for a healthful life style. Students may study from one of three areas in exercise physiology: Adaptations to training, enhancing performance, or physiological problems for the athlete.

NOTE: Students may enroll into this course multiple times for credit.

LEADERSHIP

002 Leadership Academy/JROTC (LET I)
9th Grade 1 credit
This course is designed as an introduction to leadership development through the study of the history and importance of citizenship. Students will establish both short and long-term goals while studying the Foundations for Success (self-awareness, communication skills, appreciation of diversity, learning styles, study habits, conflict resolution, physical fitness, and financial management). A component of study will include current events, the history of JROTC, and ceremonial drills.

NOTE: Students are encouraged to select this leadership development course as an elective credit.
003 Leadership Academy/JROTC (LET II)  
9th Grade  1 credit  
This course continues leadership development with students learning about the role of citizenship throughout American history. Students will extensively study first aid procedures. The importance of good nutrition and the impact physical activity has on the development of a healthy body will be enhanced as students demonstrate personal fitness. Personal communication skills will continue to develop with emphasis placed on conducting group meetings. Students will participate in a variety of ceremonial drills.

004 Leadership Academy/JROTC (LET III)-M  
10th Grade  1 credit  
Students will complete a leadership lab considering choices, decision making, problem solving techniques, negotiations, and conflict resolution. Personal skills in communication and human relations will be enhanced. Students will continue with their study of American citizenship reviewing current events and the impact. Career planning and community service will be emphasized.

005 Leadership Academy/JROTC (LET IV)-M  
10th Grade  1 credit  
Students will demonstrate their leadership potential through participation in a “cadet challenge.” This course will emphasize communication, leadership styles, management skills, financial responsibility, and career opportunities. Students will build upon their experiences which emphasize the rights, responsibilities, and privileges of American citizenship, leadership, discipline, and team work.

006 Leadership Academy/JROTC (LET V)-M  
11th Grade  1 credit  
This course is designed to continue the development of individual potential. Students will apply the concepts from Winning Colors and Thinking Maps. Students will demonstrate their communication and technology skills as they study global issues and the impact on society. Personal wellness will be measured by improved performance in physical activities.

007 Leadership Academy/JROTC (LET VI)-M  
11th Grade  1 credit  
This course will provide students an opportunity to develop listening skills that differentiate between verbal and non-verbal language. Communication styles as related to Winning Colors will determine how to prevent giving mixed messages. Leadership skills are studied by looking at the impact various executive orders have resolved or created problems. Students will continue to consider the importance of maintaining a healthy body through proper nutrition, regular exercise, and avoiding substance abuse. First aid strategies will be emphasized as students demonstrate proper techniques.

008 Leadership Academy/JROTC (LET VII)-H  
12th Grade  1 credit  
Students will demonstrate multiple leadership skills by conducting and commanding various staff functions. A major component of this course provides students the opportunity to plan and prepare for a formal program inspection. Supervisory and communication proficiency will be demonstrated through the development of a school-based service learning project. The Chief Justice game will be used to identify how to render a verdict in a case.

009 Leadership Academy/JROTC (LET VIII)-H  
12th Grade  1 credit  
Students will demonstrate their leadership style by conducting and commanding various staff functions. A major component of this course provides students the opportunity to plan and prepare for a formal program inspection including command procedures. Supervisory and communication proficiency will be demonstrated through the development of a community-based service learning project. Emphasis will be given to developing a personal resume (career vitae) that includes career exploration and post-secondary goals.

**Advanced levels of the Leadership Academy/JROTC includes recommendation from the Senior Army Instructor**

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**SPECIAL EDUCATION (CERTIFICATE)**

802 Personal Management  No Credit  
This certificate course is designed to enable students to demonstrate their ability in the following areas: personal needs, appropriate health and safety practices, managing routines. The student also will demonstrate their ability to participate in recreational, leisure and extra-curricular activities. Students will interact with their non-disabled peers in a variety of physical and motor activities. The student will participate in transition planning with adult service providers. Curriculum is adapted to meet alternative learning outcomes.

806 Community Living Skills  No Credit  
This certificate course is designed to enable students to demonstrate their ability to access community resources, to get about safely in the environment, including the ability to
participate in general community activities. The students also will demonstrate their ability to express and receive communication through a variety of methods, to make decisions and to interact socially to meet their needs. Curriculum is adapted to meet alternative learning outcomes.

**810 English**  
No Credit  
This certificate course teaches the basic skills of writing, reading, and speaking as necessary for daily living. The course focus is to prepare the student to function as independently as possible. Strategies and modifications are incorporated into the course which is appropriate and in accordance with student's Individual Education Plan. Curriculum is adapted to meet alternative learning outcomes.

**813 Mathematics**  
No Credit  
This certificate course enables students to acquire functional life skills in mathematics. The course focuses on preparing the challenged student to be as independent as possible. Strategies and modifications are incorporated as appropriate and in accordance with the student's Individual Education Plan. Curriculum is adapted to meet alternative learning outcomes.

**814 Social Studies**  
No Credit  
This certificate course is designed to familiarize the student with basic information on how to function as a member of a community. Legal issues, concepts of good citizenship and the political process are covered. Strategies and modifications which are appropriate and in accordance with IEPs will be incorporated. Curriculum is adapted to meet alternative learning outcomes.

**815 Science**  
No Credit  
This certificate course is designed to acquaint the student with scientific concepts which relate to independent living and use of science in the adult world. Curriculum is adapted to meet alternative learning outcomes.

**816 Art**  
No Credit  
The student will develop skills needed to complete basic functions in hand-eye coordination. The students will develop skills in one or more of the following areas: drawing, painting, and sculpture. Curriculum is adapted to meet alternative learning outcomes.

**817 Music**  
No Credit  
This course will provide students with an opportunity for exposure to a variety of musical styles. Curriculum is adapted to meet alternative learning outcomes.

**818 Physical Activity**  
No Credit  
The student will learn the importance of regular exercise and participate in team sports. The student will also learn the importance of good sportsmanship. Curriculum is adapted to meet alternative learning outcomes.

**821 Career/Vocational Education**  
No Credit  
No Credit  
**822 Child Care**  
No Credit  
**823 Health Careers**  
No Credit  
**824 Auto Mechanics**  
No Credit  
**825 Carpentry**  
No Credit  
**826 Foods (SHS Only)**  
No Credit  
These certificate courses are designed to enable the student to demonstrate their ability to evidence positive work attitudes and behaviors. Students will participate in transitioning planning to employment and in various employment opportunities. Curriculum is adapted to meet alternative learning outcomes.

**831 Consumer Science**  
No Credit  
This course is designed to enable the student to function as independently as possible in the area of home management skills. Curriculum is adapted to meet alternative learning outcomes.

**NOTE:** Please note that special education courses, for which credit toward a diploma is earned, are listed within their respective content areas. Courses noted in this separate listing are non-credit courses (800’s) which apply strictly toward a certificate of completion.
Each of the programs of study may be applicable as preparation for direct job entry or direct transfer/articulation to Garrett College following completion (Program Application 1) or admission to the University of Maryland System and other four-year schools (Program Application 2). As graduation requirements, special required courses, and career technology completion sequences are included in each career path, students must complete the courses of study essentially as listed. This will assure satisfactory completion of the high school program and provide a sound preparation for the student's transition to post-secondary endeavors.

Students entering the program after ninth grade, those wishing to change career paths, and students who find scheduled conflicts with a highly valued elective course, must consult his/her school counselor for assistance. In some cases an individualized schedule may be appropriate.

It is strongly recommended that students include elective courses to enhance their program of studies whenever possible. Electives are intended to add depth and enrichment to the student's preparation. In some clusters, one or more career paths may include additional credits in order to meet State Approved Career Development Program completion and graduation requirements. School counselors will be available to provide explanations and offer assistance with individual problems and unique situations.

Possible CERTIFICATION AND COLLEGE CREDIT opportunities upon completing a program of studies
### BUSINESS, MANAGEMENT AND FINANCE

<table>
<thead>
<tr>
<th>Option</th>
<th>Partner</th>
<th>Credential</th>
<th>Value added for CTE completers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit by Exam</td>
<td>College Board</td>
<td>CLEP Exams</td>
<td>3 credits /exam</td>
</tr>
<tr>
<td>Certification(s)</td>
<td>Microsoft Office</td>
<td>Word, Excel</td>
<td>Certification</td>
</tr>
</tbody>
</table>

### INFORMATION TECHNOLOGY – COMPUTER SCIENCE

<table>
<thead>
<tr>
<th>Option</th>
<th>Partner</th>
<th>Credential</th>
<th>Value added for CTE completers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual Enrollment</td>
<td>CyberWatch</td>
<td>Community Colleges - College Credit</td>
<td>Up to 3 credits (under development)</td>
</tr>
<tr>
<td>Articulated Credit</td>
<td>University of Maryland – Baltimore County (UMBC)</td>
<td>B.S. in Computer Science</td>
<td>Up to 6 credits (under development)</td>
</tr>
<tr>
<td>Advanced Placement</td>
<td>College Board</td>
<td>College Credit by Exam</td>
<td>Up to 6 credits (2014)</td>
</tr>
<tr>
<td>Certification(s)</td>
<td>Microsoft Technology Associate (MTA) – Developer Pathway</td>
<td>MTA – Software Development Fundamentals, Web, or Windows</td>
<td>Industry Certification</td>
</tr>
</tbody>
</table>

### MANUFACTURING ENGINEERING TECHNOLOGY (NIMS)

<table>
<thead>
<tr>
<th>Option</th>
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<th>Credential</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Articulated Credit</td>
<td>College of Southern Maryland</td>
<td></td>
<td>Up to 9 Credits</td>
</tr>
<tr>
<td></td>
<td>Community College of Baltimore County</td>
<td></td>
<td>Up to 12 Credits</td>
</tr>
<tr>
<td></td>
<td>Wor-Wic Community College</td>
<td></td>
<td>Pending</td>
</tr>
<tr>
<td>Certification(s)</td>
<td>National Institute of Metalworking Skills (NIMS)</td>
<td></td>
<td>NIMS Machining Level I</td>
</tr>
</tbody>
</table>

### PROJECT LEAD THE WAY – PRE ENGINEERING

<table>
<thead>
<tr>
<th>Option</th>
<th>Partner</th>
<th>Credential</th>
<th>Value added for CTE completers</th>
</tr>
</thead>
</table>
Articulated Credit  UMBC  BS in Engineering  3 credits for ENES101 by completing EDD and all courses leading up to it (POE, IED, DE, and a technical elective) with an average of “B,” by being enrolled in a PLTW-certified school, by meeting college enrollment requirements, and by paying a designated tuition for each course. In addition, students must complete a college credit exam or submit a portfolio for review and approval.

**PROJECT LEAD THE WAY – BIOMEDICAL SCIENCES**

<table>
<thead>
<tr>
<th>Option</th>
<th>Partner</th>
<th>Credential</th>
<th>Value added for CTE completers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transcribed Credit</td>
<td>Stevenson University – Biomedical Sciences (PLTW) University Affiliate</td>
<td></td>
<td>4 credits in BIO 113</td>
</tr>
</tbody>
</table>

**AGRICULTURE (CASE)**

<table>
<thead>
<tr>
<th>Option</th>
<th>Partner</th>
<th>Credential</th>
<th>Value added for CTE completers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transcribed Credit</td>
<td>UMD- IAA</td>
<td>3 Credit Agreement</td>
<td>Students who complete the CASE POS are eligible to apply to the Institute of Applied Agriculture at the UMD and earn three elective credits for successful presentation of the MD capstone project.</td>
</tr>
<tr>
<td>Credit by Exam</td>
<td>CASE</td>
<td>Under Development</td>
<td></td>
</tr>
</tbody>
</table>

**ARTS & HUMAN SERVICES CLUSTER**
The program sequences in this cluster are designed to meet the essential requirements for graduation from Maryland Public Schools as well as provide general background in selected courses designed to prepare students for advancement in the Arts or Human Services. Specific high school programs of study in this cluster are:

Classes that require more than one credit will state the number of credits per year

**CHILD CARE/EDUCATION**

<table>
<thead>
<tr>
<th>594 Child Care I</th>
<th>11th Grade</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAREER PATHWAY</td>
<td>2 credits</td>
<td>2 credits</td>
</tr>
<tr>
<td>Child Care and Guidance Services (200201)</td>
<td>2 credits of Child Care (#594)</td>
<td>2 credits of Child Care (#596)</td>
</tr>
</tbody>
</table>

**11th Grade**
Are you interested in seeking a career as an elementary school teacher; child care director, teacher, or assistant; or as a family day care operator? In this class, you will study child growth and development, as well as planning, organizing, and implementing activities for a child care facility.

<table>
<thead>
<tr>
<th>596 Child Care II</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAREER PATHWAY</td>
<td>2 credits</td>
</tr>
<tr>
<td>Child Care and Guidance Services (200201)</td>
<td>2 credits of Child Care (#596)</td>
</tr>
</tbody>
</table>

**12th Grade**
Continue to learn about all phases of the child care profession through this class. Experience working in different local child care facilities and elementary schools. Ninety-nine hour state certification may be received by those with at least a 2.0 un-weighted average in the combined Child Care classes.

**ARTS & HUMAN SERVICES CLUSTER**

The program sequences in this cluster are designed to meet the essential requirements for graduation from Maryland Public Schools as well as provide general background in selected courses designed to prepare students for advancement in the Arts or Human Services. Specific high school programs of study in this cluster are:
Classes that require more than one credit will state the number of credits per year.

**FOOD PRODUCTION (SHS ONLY)**

<table>
<thead>
<tr>
<th>CAREER PATHWAY</th>
<th>10th Grade</th>
<th>11th Grade</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food Production (200401) <strong>SHS Only</strong></td>
<td>Food Production I (#690)</td>
<td>2 credits of Food Production II (#691)</td>
<td>1-3 credits of Food Production III (#692)</td>
</tr>
</tbody>
</table>

**690 Food Production I (SHS Only)**

10th Grade | 1 credit
This one credit class will introduce students to basic skills needed in an entry level position in food service and production. Students will be taught proper safety and sanitation, recipe reading, recipe preparation and proper equipment usage. Emphasis is placed on developing appropriate work habits expected by employers.

**691 Food Production II (SHS Only)**

11th Grade | 2 credit(s)
Students will learn proper techniques to use in waiting on customers, food preparation and presentation, cashiering skills, food storage, customer-employer relations and close-up procedures.

**692 Food Production III-M (SHS Only)**

12th Grade | 1-3 credit(s)
This course further emphasizes skills learned in Food Production I with students being responsible for preparation and completion of food products and the serving area for lunch service. Cake decorating is also taught during the spring semester.

**BUSINESS, MANAGEMENT AND FINANCE CLUSTER**
The program sequences in this cluster are designed to meet the essential requirements for graduation from Maryland Public Schools as well as provide general background in selected courses designed to prepare students for advancement in Business Careers. Specific high school programs of study in this cluster are:

**MARKETING (SHS ONLY)**

<table>
<thead>
<tr>
<th>CAREER PATHWAY</th>
<th>10th Grade</th>
<th>11th Grade</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketing (521451) SHS Only</td>
<td>Principles of Business Administration and Law (#611)</td>
<td>Introduction to Marketing (#640)</td>
<td>Advanced Marketing and Sales-M (#641)</td>
</tr>
<tr>
<td></td>
<td>Principles of Finance and Accounting (#604)</td>
<td>SHS Only</td>
<td>SHS Only</td>
</tr>
</tbody>
</table>

**BUSINESS MANAGEMENT**

<table>
<thead>
<tr>
<th>CAREER PATHWAY</th>
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<th>11th Grade</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Principles of Finance and Accounting (#604)</td>
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</table>

**BUSINESS ADMINISTRATIVE SERVICES**

<table>
<thead>
<tr>
<th>CAREER PATHWAY</th>
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<th>12th Grade</th>
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<tbody>
<tr>
<td></td>
<td>Principles of Finance and Accounting (#604)</td>
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</table>

**FINANCE AND ACCOUNTING**

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<tr>
<th>CAREER PATHWAY</th>
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<th>12th Grade</th>
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<tbody>
<tr>
<td></td>
<td>Principles of Finance and Accounting (#604)</td>
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</table>

Students taking any Business Pathway are highly encouraged to take the following electives in addition to their required courses: Word Processing, Web Design-M, Desktop Publishing-M, Financial Management and Computer Applications

**602 Word Processing**

10th Grade 1 credit

Hands-on efficient usage of Microsoft Word is provided through document preparation after introductory keyboarding skills are learned. The use of formatting techniques is mastered through the creation of documents such as letters, reports, memos, newsletter and tables. Students will master specialized software functions and produce original projects using advanced skills. Word Processing concepts and applications are intended to prepare the student for MOS certification.

**603 Office Systems Management**

10th Grade 1 credit

Business skills and knowledge are applied through practical
simulations. Units in career exploration, teamwork, use of telecommunications, information systems and computer applications, processing business documents, financial record keeping, file management, human relations skills, and job-seeking procedures, will be completed.

604 Principles of Finance and Accounting
10th Grade 1 credit
This course provides students with the knowledge necessary to manage and maintain financial resources. Fundamental accounting concepts are applied to generally accepted accounting principles to determine the value of assets, liabilities, and owner’s equity. Students will be exposed to application simulations demonstrating an understanding of financial accounting of service and merchandising businesses. This is one of two foundation courses required for all pathways in the Business Management and Finance Career Cluster.

605 Advanced Accounting-M
10th Grade 1 credit
This course provides students with accounting knowledge that will prepare them for post-secondary levels of education and entry-level positions in the work force. Focus will be on accounting procedures necessary to address long and short-term assets, investments, and liabilities; inventory management; and accounting ratios used in the decision-making process by using a computerized accounting system. Accounting career options will also be explored.

606 Financial Management
10th Grade 1 credit
This comprehensive course is designed to provide students with the broad knowledge and practice they need to make informed financial decisions related to both personal and business finance. Students will be exposed to principles of budgeting, credit, risk management, career options, and better understand their roles as workers and the roles of business in our society. Students will be equipped with strategies to make informed financial decisions in both personal and business environments.

NOTE: Students passing this course shall earn the required Financial Literacy graduation requirement.

611 Principles of Business Administration and Law
9th Grade 1 credit
Students will establish an understanding of core business ethics and business law concepts such as contract law, intellectual property, and becoming a responsible consumer. Business terminology and principles are emphasized, along with a brief historical perspective of law. This is one of two foundation courses required for all pathways in the Business Management and Finance Career Cluster.

615 Advanced Business Management-M
10th Grade 1 credit
Advanced Business Management provides study in the area of business ownership of both large and small companies. Students will research bios of successful CEOs, explore entrepreneurial areas of interest, examine business plan frameworks and engage in problem solving activities related to contemporary business issues. Students will use Web-based programs and online educational resources to create a final capstone project of a business plan.

619 Desktop Publishing-M
10th Grade 1 credit
This course focuses on graphic design and layout. The students will learn publishing and graphics creation using Adobe software programs.

622 Advanced Software Applications for Business-M
10th Grade 1 credit
Students will develop advanced skills using Microsoft’s leading business desktop software, Microsoft Office Suite. Students will be expected to think analytically, manipulate information, and use the computer as a productivity tool through integrated application programs. Expertise in technology will contribute to students’ future career mobility, advancement potential, compensation and job satisfaction.

630 Web Design-M
10th Grade 1 credit
Web Design will provide students with the skills needed to enter the field of web design development. Students will learn the fundamentals of building websites through HTML and through advanced web building software created by Adobe and Microsoft. 
NOTE: A student may enroll in this course multiple times for an elective credit.

640 Introduction to Marketing (SHS Only)
10th Grade 1 credit
The first course in the Marketing Pathway introduces students to the basic concepts of marketing and its functions in the business world. Students will use and incorporate Web 2.0 technologies to conduct research of target markets, legal issues related to business operations, market research, and identify careers in many marketing fields such as retail, sports and entertainment marketing. Students will develop an understanding of the elements of the marketing mix and gain experience implementing marketing strategies through classroom and school-based endeavors.

641 Advanced Marketing and Sales (SHS Only)
10th Grade 1 credit
Advanced Marketing & Sales gives students an extensive look at the most commonly known function of marketing: promotion. Students will use SWOT Analysis strategies and utilize interactive technologies related to Mobile Applications and Social Networking for business. Units of study may also include visual merchandising, pricing, designing print and broadcast commercials. Personal selling is also explained as students will conduct a sales presentation of a favorite object for part of their final exam.
The program sequences in this cluster are designed to meet the essential requirements for graduation from Maryland Public Schools as well as provide general background in selected courses designed to prepare students for advancement in Engineering and Technology Careers. Specific high school programs of study in this cluster are:

Classes that require more than one credit will state the number of credits per year.

**AUTOMOTIVE TECHNOLOGY**

**NOTE:** Student must earn FOUR credits to complete the Automotive Technology Career Pathway.

<table>
<thead>
<tr>
<th>CAREER PATHWAY</th>
<th>9th or 10th Grade</th>
<th>10th or 11th Grade</th>
<th>11th or 12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automotive Technology</td>
<td>Automotive Mechanics I (#651)</td>
<td>2 credits of Automotive Mechanics II (#652)</td>
<td>1-3 credits of Automotive Mechanics III-M (#653)</td>
</tr>
<tr>
<td>(470604)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**651 Automotive Mechanics I**

9th or 10th Grade 1 credit

The student in this class is introduced to basic information on safety, tools, shop manuals, electricity, ASE certification, and vehicle maintenance. This class prepares students to more fully comprehend the classes that provide in-depth coverage of auto mechanics.

**652 Automotive Mechanics II**

10th or 11th Grade 2 credit(s)

This class presents four automotive systems to the students: 1) chassis and front end; 2) fuel systems; 3) automotive electrical systems; and 4) emission control systems. The construction and operation of the parts of these systems are studied. Also included in this course are troubleshooting and repair of parts involved in these systems. This sequential study is intended to provide a sound background for doing actual repairs.

**653 Automotive Mechanics III-M**

11th or 12th Grade 1-3 credit(s)

This class presents the four most complicated automotive systems to senior students: 1) engine tune-up; 2) engine service and repair; 3) automotive drive train; and 4) accessory systems. This formal instruction is combined with the students operating a small scale automotive repair facility, and the opportunity to participate in two nationally ranked contests for high school auto mechanic students.
The program sequences in this cluster are designed to meet the essential requirements for graduation from Maryland Public Schools as well as provide general background in selected courses designed to prepare students for advancement in Engineering and Technology Careers. Specific high school programs of study in this cluster are:

**Carpentry**

*NOTE: Student must earn FOUR credits to complete the Carpentry Career Pathway.*

<table>
<thead>
<tr>
<th>CAREER PATHWAY</th>
<th>9th or 10th Grade</th>
<th>10th or 11th Grade</th>
<th>11th or 12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carpentry (460201)</td>
<td>Carpentry I (#655)</td>
<td>2 credits of Carpentry II(#656)</td>
<td>1-3 credits of Carpentry III-M (#657)</td>
</tr>
</tbody>
</table>

**655 Carpentry I**

9th or 10th Grade

1 credit

Students will demonstrate knowledge and skills related to types of construction, construction materials, hand tools, power tools, construction equipment, site conditions, and safety on the job site.

**656 Carpentry II**

10th or 11th Grade

2 credit(s)

Students will demonstrate knowledge and skills related to blueprint design and blueprint reading, leveling instruments and operation, foundation construction, and construction of floors, walls, and ceiling framing.

**657 Carpentry III-M**

11th or 12th Grade

1-3 credit(s)

Students will demonstrate knowledge and skills related to roof frame construction; energy conservation, and construction method; exterior finish; interior finish; stairway construction; and concrete heavy construction.

**Engineering and Technology Cluster**
The program sequences in this cluster are designed to meet the essential requirements for graduation from Maryland Public Schools as well as provide general background in selected courses designed to prepare students for advancement in Engineering and Technology Careers. Specific high school programs of study in this cluster are:

**INFORMATION TECHNOLOGY—COMPUTER SCIENCE**

*NOTE: Student must earn FOUR credits to complete the IT-Computer Science Career Pathway.*

<table>
<thead>
<tr>
<th>CAREER PATHWAY</th>
<th>9th or 10th Grade</th>
<th>10th or 11th Grade</th>
<th>11th or 12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Technology—Computer Science (110250)</td>
<td>Foundations of Computer Science (#511)</td>
<td>Computer Science Principles (#512)</td>
<td>1 credit in either: Microcomputer Operating Systems (#513) or Ethics and the Information Age (#514)</td>
</tr>
</tbody>
</table>

### 510AP Computer Science AP

**10th Grade**

This is an advance course in computer science. Because the design and implementation of computer programs to solve problems involve skills that are fundamental to the study of computer science, a large part of the course is built around the development of computer programs that correctly solve a given problem. These programs should be understandable, adaptable, and, when appropriate, reusable. At the same time, the design and implementation of computer programs is used as a context for introducing other important aspects of computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, the study of standard algorithms and typical applications, and the use of logic and formal methods. In addition, the responsible use of these systems is an integral part of the course.

*NOTE: The student enrolled in this course will be required to take the National AP exam and may potentially receive advanced placement credit at many colleges and universities.*

### 512 Computer Science Principles

**10th Grade**

This course advances students’ understanding of the technical aspects of computing including, programming and algorithm design, computer system organization and operation, and data representation and information organization. This course includes the use of several programming languages, based on the specific project or problem students must solve.

### 513 Microcomputer Operating Systems

**11th Grade**

This introduction to DOS and Windows operating environments includes basic and advanced operations and use of system utilities. Introduces DOS and UNIX/LINUX command structures and explores operations using the Windows graphical user interface.

### 514 Ethics and the Information Age

**11th Grade**

In this course, students gain a clearer understanding of certain ethical issues in information technology as well as an understanding of how ethical theory can be applied to a discussion and analysis of those issues. In critically examining a cluster of information technology issues within the framework of ethical theory, students can develop a rational, coherent, consistent, and systemic approach to addressing moral issues in information technology.

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**ENGINEERING AND TECHNOLOGY CLUSTER**
The program sequences in this cluster are designed to meet the essential requirements for graduation from Maryland Public Schools as well as provide general background in selected courses designed to prepare students for advancement in Engineering and Technology Careers. Specific high school programs of study in this cluster are:

*Classes that require more than one credit will state the number of credits per year.*

**MANUFACTURING ENGINEERING TECHNOLOGY (NIMS)**

*NOTE: Student must earn FOUR credits to complete the Manufacturing Engineering Technology (NIMS) Career Pathway.*

<table>
<thead>
<tr>
<th>NEW CAREER PATHWAY</th>
<th>9th - 11th Grade</th>
<th>10th - 12th Grade</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturing Engineering Technology (NIMS) (150650)</td>
<td>Principles of Competitive Manufacturing I (#673)</td>
<td>Machining Operations I (#675)</td>
<td>(OLD) 1-3 credits of Machine Tool III-M (#672)</td>
</tr>
<tr>
<td></td>
<td>Principles of Competitive Manufacturing II (#674)</td>
<td>Machining Operations II (#676)</td>
<td></td>
</tr>
</tbody>
</table>

**673 Principles of Competitive Manufacturing I**

*9th - 11th Grade* 1 credit

Students will be introduced to the fundamental concepts and professional standards of the machining industry, including safety, precision measurement, milling, grinding, industry equipment as well as the vocabulary and terminology of the profession.

**674 Principles of Competitive Manufacturing II**

*10th or 11th Grade* 1 credit

Students will continue with the concepts and professional standards of the machining industry, including safety, precision measurement, milling, grinding, industry equipment as well as the vocabulary and terminology of the profession.

**675 Machine Operations I**

*10th - 12th Grade* 1 credit

Students increase the knowledge and skills they gained in the Principles of Competitive Manufacturing by performing basic process planning, set-up, and operation of common classes of machine tools such as turning, milling, drilling, or surface grinding machines.

**676 Machine Operations II**

*11th or 12th Grade* 1 credit

Students continue to increase the knowledge and skills by performing basic process planning, set-up, and operation of common classes of machine tools such as turning, milling, drilling, or surface grinding machines.

*NOTE: Students completing this pathway will have the opportunity earn NIMS certification credentials.*

**672 Machine Tool III-M**

*12th Grade* 1-3 credit(s)

Machine Tool III introduces more advanced machine operations. Performance at this level is expected to bring students to job level readiness. The third year may include an internship experience.
The program sequences in this cluster are designed to meet the essential requirements for graduation from Maryland Public Schools as well as provide general background in selected courses designed to prepare students for advancement in Engineering and Technology Careers. Specific high school programs of study in this cluster are:

**PRE-ENGINEERING**

*(PROJECT LEAD THE WAY)*

*NOTE: Student must earn FIVE credits to complete the Pre-Engineering Career Pathway.*

<table>
<thead>
<tr>
<th>CAREER PATHWAY</th>
<th>9th or 10th Grade</th>
<th>10th or 11th Grade</th>
<th>11th or 12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Engineering (155000)</td>
<td>Intro to Engineering Design-M (#561)</td>
<td>Digital Electronics-M (#562)</td>
<td>Engineering Design and Development-H (#564)</td>
</tr>
</tbody>
</table>

**560 Principles of Engineering**

9th or 10th Grade 1 credit

This course is designed to help students understand the field of engineering/technology. Students will explore various technology systems and manufacturing processes and demonstrate how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change.

*NOTE: This course meets the Technology Education credit requirement.*

**561 Intro to Engineering Design-M**

9th or 10th Grade 1 credit

This course teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed, and communicated using solid modeling computer design software.

*NOTE: This course meets the Technology Education credit requirement.*

**562 Digital Electronics-M**

10th - 11th Grade 1 credit

This is a course in applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices.

**563 Computer Integrated Manufacturing-M**

10th or 11th Grade 1 credit

This course applies principles of robotics and automation. The course builds on computer solid modeling skills developed in Introduction to Engineering Design. Students will use CNC equipment to produce actual models of their three-dimensional designs. Fundamental concepts of robotics used in automated manufacturing and design analysis are included.

**564 Engineering Design and Development-H**

12th Grade 1 credit

This is an engineering research course in which students work in teams to research, design and construct a solution to an open-ended engineering problem. Students apply principles developed in the four preceding courses and are guided by a community mentor. They must present progress reports, submit a final written report and defend their solutions to a panel of outside reviewers at the end of the school year.

LIFE SCIENCES AND NATURAL SCIENCES CLUSTER
The program sequences in this cluster are designed to meet the essential requirements for graduation from Maryland Public Schools as well as provide general background in selected courses designed to prepare students for advancement in Biology and Natural Resources Careers. Specific high school programs of study in this cluster are:

### AGRICULTURE MANAGEMENT

<table>
<thead>
<tr>
<th>CAREER PATHWAY</th>
<th>10th Grade</th>
<th>11th Grade</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture Management (010050)</td>
<td>Intro to Agriculture (#738)</td>
<td>Principles of Ag Science-Animals (#742) or Plant and Greenhouse Mgmt (#740)</td>
<td>Agriculture Elective</td>
</tr>
<tr>
<td></td>
<td>Ag Production &amp; Mechanics Mgmt (#744)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 classes can be taken in any order.</td>
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</tbody>
</table>

### HORTICULTURE

<table>
<thead>
<tr>
<th>CAREER PATHWAY</th>
<th>9th or 10th Grade</th>
<th>11th Grade</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horticulture (010050)</td>
<td>Intro to Agriculture (#738)</td>
<td>Principles of Ag Science-Plant and Greenhouse Mgmt (#740)</td>
<td>Agriculture Engineering-Power (#746)</td>
</tr>
<tr>
<td></td>
<td>Ag Production &amp; Mechanics Mgmt (#744)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 classes can be taken in any order.</td>
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</tbody>
</table>

### ANIMAL AND VETERINARY SCIENCE

<table>
<thead>
<tr>
<th>CAREER PATHWAY</th>
<th>9th or 10th Grade</th>
<th>11th Grade</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal and Veterinary Science (010301)</td>
<td>Intro to Agriculture (#738)</td>
<td>Principles of Ag Science-Animals (#742)</td>
<td>Wildlife and Forestry Management (#726)</td>
</tr>
<tr>
<td></td>
<td>Ag Production &amp; Mechanics Mgmt (#744)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 classes can be taken in any order.</td>
<td></td>
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</tbody>
</table>

### NATURAL RESOURCE SCIENCE or BIOLOGICAL SCIENCES

<table>
<thead>
<tr>
<th>CAREER PATHWAY</th>
<th>9th or 10th Grade</th>
<th>11th Grade</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Resource Science (010050) or Biological Sciences (010050)</td>
<td>Intro to Agriculture (#738)</td>
<td>Principles of Ag Science-Plant and Greenhouse Mgmt (#740)</td>
<td>Wildlife and Forestry Management (#726)</td>
</tr>
<tr>
<td></td>
<td>Ag Production &amp; Mechanics Mgmt (#744)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 classes can be taken in any order.</td>
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</tr>
</tbody>
</table>

722 Agriculture Engineering-Structures

10th Grade

1 credit

An agricultural mechanics course designed to improve student skills in carpentry, electrification, and position welding. Other areas of study include rafter framing, agricultural buildings, and construction of fences.

**NOTE:** This course will be taught on alternating years (odd) with course number 746.
726 Wildlife and Forestry Management
10th Grade  1 credit
Students will demonstrate introductory knowledge of the management of timber by-products, wood lots, and related wildlife.

NOTE: This course can count as a Science credit if the student is not taking the course as part of his/her pathway. This course also meets the Environmental Literacy requirement.

728 Agriculture Experience
10th Grade  1 credit
Students will establish and maintain a FFA supervised agricultural experience program and submit various required records. This course does not have a specified class time and is conducted out of school, including summers. Students must complete an agricultural project.

738 Introduction to Agriculture, Food, Natural Resources and Mechanics
9th Grade  1 credit
This course is an introduction to the world of agriculture and mechanics. A general study of careers, livestock, plant and soil science, FFA, welding, carpentry, safety, and other mechanics skills.

740 Principles of Agricultural Science-Plant and Greenhouse Management
10th Grade  1 credit
An in-depth study of plant physiology and processes, growing media, major agriculture crops, environmental effects upon plants and pests of plants. This will also be an introduction to greenhouse management and plant propagation. The course also includes a study of the basic principles of landscaping.

Curriculum for Agricultural Science
Education course or CASE

NOTE: With teacher recommendation a student may repeat this course for an elective credit.

A general study of animal and veterinary science; including physiology and biological functions of animals, as well as health, nutrition, reproduction, and care and management of livestock.

744 Agriculture Production and Mechanics Management
10th Grade  1 credit
Students will design and implement an agri-business/production plan based on personal interest and industry needs. A supervised agriculture experience, exploration and development program will be emphasized.

NOTE: Students passing this course shall earn the required Financial Literacy graduation requirement.

746 Agriculture Engineering-Power
10th Grade  1 credit
Students will demonstrate knowledge and skills in maintenance and servicing of agricultural machinery and equipment. An in-depth study of soils and the production of major agricultural crops. An in-depth study of both two stroke and four stroke small engines, including principles of operation, repair, maintenance, and servicing small engines.

NOTE: This course will be taught on alternating years (even) with course number 722.

742 Principles of Agricultural Science-Animal
10th Grade  1 credit

LIFE SCIENCES AND NATURAL SCIENCES CLUSTER
The program sequences in this cluster are designed to meet the essential requirements for graduation from Maryland Public Schools as well as provide general background in selected courses designed to prepare students for advancement in Biology and Natural Resources Careers. Specific high school programs of study in this cluster are:

Classes that require more than one credit will state the number of credits per year.

ALLIED HEALTH

<table>
<thead>
<tr>
<th>CAREER PATHWAY</th>
<th>12th Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursing-LPN (519999)</td>
<td>4 credits of Allied Health</td>
</tr>
</tbody>
</table>

620 Health Careers/Internship (Allied Health)

12th Grade

4 credits

Allied Health class is a skilled career technology program offering information and the use of scientific skills related to jobs and careers in the health field. The class allows internships on the job with health-care employers (such as Garrett Memorial Hospital and Goodwill Convalescent Home) working with trained professionals. Students are prepared to enter college with a broad view of actual work experience in their chosen field after completion of this one year program. Many enter into college for degrees as registered nurses, physicians, X-ray technicians, etc. Tests are offered to all students for Maryland certification as a nurse’s assistant which starts them at an entry level position anywhere in Maryland in health care. Students are eligible to sit for geriatric nursing assistant certification upon completion of course.

LIFE SCIENCES AND NATURAL SCIENCES CLUSTER
The program sequences in this cluster are designed to meet the essential requirements for graduation from Maryland Public Schools as well as provide general background in selected courses designed to prepare students for advancement in Biology and Natural Resources Careers. Specific high school programs of study in this cluster are:

**BIOMEDICAL SCIENCE**

*(PROJECT LEAD THE WAY)*

<table>
<thead>
<tr>
<th>CAREER PATHWAY</th>
<th>9th or 10th Grade</th>
<th>10th or 11th Grade</th>
<th>11th or 12th Grade</th>
</tr>
</thead>
</table>

580 **Principles of Biomedical Sciences-M**

*9th or 10th Grade* 1 credit

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

581 **Human Body Systems-M**

*10th or 11th Grade* 1 credit

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

582 **Medical Interventions-M**

*10th or 11th Grade* 1 credit

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

583 **Biomedical Innovation-H**

*11th or 12th Grade* 1 credit

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.
501 Computer Applications
9th Grade  1 credit
The student will learn how to use the computer as a resource or tool which can be applied to current and future educational or employment pursuits and increase their comfort level using computers. Advanced topics on computer applications will include multimedia, the Internet, and computer-based tools. Culminates in a final project.

507 Computer Programming-M
10th Grade  1 credit
Students will demonstrate proper programming techniques, use and manipulate strings with string functions, read/write to and from files stored on disk, create and implement user-defined data types, define and implement searching and sorting algorithms in programs, access and use external libraries, use graphics, and design a program.

570 Family and Consumer Science
9th Grade  1 credit
Take care of yourself. Explore the basics of nutrition, food preparation, clothing, consumer education, housing, and human development. The first step to being on your own.

661A Mechanical Drafting I
10th Grade  1 credit
A drafting course used as a basis for the more advanced courses that follow. Topics include: lettering, line technique, sketching, geometric construction, instrument usage, orthographic projection, three views, isometric and oblique drawings, and sectional views.
NOTE: This course is recommended for machine tool, carpentry, electronics and automotive technology students.

661B Mechanical Drafting II
10th Grade  1 credit
This is a continuation of Mechanical Drafting I. Topics of study include: assembly drawings, working drawings, pattern drafting, fastener drawings, surface developments, perspective drawings, cams, and gears.

662A Architectural Drafting I
11th Grade  1 credit
An architectural drafting course designed to cover various aspects of house design. Drawings topics include; floor plans, sectional views elevations, door and window schedules, kitchen detail, bathroom details, foundation plan, stairway detail, and fireplace detail.
NOTE: This course is recommended for the construction trades program.

662B Architectural Drafting II
11th Grade  1 credit
This is a continuation of Architectural Drafting I. The student will design and draw a multi-story residential architectural project.

663 Auto-CAD-M
11th Grade  1 credit
This is a computer aided drafting course. It is designed to introduce the drafting student to the basics of AUTO CAD. Topics of study include toolbar exploration, and geometric construction, dimensioning, developing drawings, and placing text on drawings.

680 General Electronics
10th Grade  1 credit
General electronics is designed for students needing an introductory course in basic electronics. This lab based course will cover safety, basic DC and AC circuit theory as well as an introduction to semiconductors. The course will be beneficial to students in the engineering, auto, and computer science pathways and for any student planning on taking physics.

775 School To Careers
12th Grade  1 credit
Participation in a work-based experience (paid or unpaid) will support the student’s chosen pathway and enhance the student’s school-based experiences. Prior to participating in a STC work-based experience, students and the internship site mentor will complete a “School-to-Careers Training Agreement,” which is available in the high school guidance office. Students must have a satisfactory attendance record with no history of unlawful absences. Students must provide their own transportation to and from the internship site. Grades reflected as pass/fail only.
NOTE: If approved a student may earn up to 4 credits (135 hours of work based experience = 1 credit) per year for a total of four STC credits prior to graduation.

779 Information Technology-H (GC163 and GC164)
12th Grade  2 credits
These courses prepare a student for CCNA certification. The course uses a SOHO network to introduce some basic networking terminology, concepts and skills such as network models, LANs, networking topologies, devices, MAC and IP addressing and other networking protocols as well as cabling, wireless, and security, and how to plan, deploy, and troubleshoot small networks. Hands-on labs are designed to give students practical experience. Additionally students use small and medium business and enterprise sized networks to take concepts such as IP addressing, switching, routing, WAN technologies, and security to the next level. Topics covered include TCP/IP, routing protocols and processes, router commands and configuration and troubleshooting routers.
NOTE: Students selecting this course MUST register at Garrett College and have their own transportation. The two courses students must take are CIS163 Introduction to CISCO Networking and CIS 164 Router Fundamentals.
<table>
<thead>
<tr>
<th>GRADUATION REQUIREMENTS</th>
<th>GRADE 9</th>
<th>GRADE 10</th>
<th>GRADE 11</th>
<th>GRADE 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH = 4 CREDITS</td>
<td>English I</td>
<td>English II</td>
<td>English III</td>
<td>English IV</td>
</tr>
<tr>
<td>SOCIAL STUDIES = 3 CREDITS</td>
<td>U.S. History</td>
<td>Government</td>
<td>World History</td>
<td></td>
</tr>
<tr>
<td>MATHEMATICS = 4 CREDITS</td>
<td>Mathematics</td>
<td>Mathematics</td>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>with Algebra and Geometry required</td>
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<tr>
<td>SCIENCE = 4 CREDITS</td>
<td>Science</td>
<td>Science</td>
<td>Science</td>
<td></td>
</tr>
<tr>
<td>laboratory science with Biology required</td>
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<tr>
<td>FINANCIAL LITERACY</td>
<td>Fine Art</td>
<td></td>
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<tr>
<td>ENVIRONMENTAL LITERACY</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>TECHNOLOGY EDUCATION = 1 CREDIT</td>
<td>Technology Education</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYSICAL EDUCATION = ½ CREDIT</td>
<td>PE/Health</td>
<td>CTE CLASS</td>
<td>CTE CLASS</td>
<td></td>
</tr>
<tr>
<td>HEALTH = ½ CREDIT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FINE ARTS = 1 CREDIT</td>
<td>CTE CLASS</td>
<td>CTE CLASS</td>
<td>CTE CLASS</td>
<td></td>
</tr>
<tr>
<td>CTE = 4 CREDITS</td>
<td></td>
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<td></td>
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<tr>
<td>WORLD LANGUAGE = 2 CREDITS</td>
<td></td>
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<tr>
<td>TOTAL CREDITS REQUIRED = 23</td>
<td>Min. 8 credits attempted</td>
<td># of</td>
<td>Min. 8 credits attempted</td>
<td># of</td>
</tr>
<tr>
<td></td>
<td>credits earned = _____</td>
<td>Merit = _____</td>
<td>credits earned = _____</td>
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<tr>
<td></td>
<td>Honors = _____</td>
<td></td>
<td>Honors = _____</td>
<td></td>
</tr>
</tbody>
</table>

GARRETT COUNTY PUBLIC SCHOOLS CAREER PATHWAY - Four Year Plan: SAMPLE OF UNIVERSITY OF MARYLAND COMPLETER PROGRAM APPLICATION: 2. (University of Maryland System Readiness requires four merit/honors mathematics credits plus two World Language credits at the high school level)
### GARRETT COUNTY PUBLIC SCHOOLS CAREER PATHWAY - Four Year Plan: SAMPLE OF DUAL COMPLETER REQUIREMENTS

**PROGRAM APPLICATION:** 2. (University of Maryland System Readiness requires four merit/honors mathematics credits plus two World Language credits at the high school level)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
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**TOTAL CREDITS REQUIRED = 23**

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**TOTAL CREDITS REQUIRED = 30**

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**Student Name (Please Print)**    **NGHS or SGHS**    **Male or Female**

**Student Number**    **School**    **Graduation Year**    **Gender**