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NAME _____

HOMEROOM _____

It is the policy of the Muhlenberg School District not to discriminate on the basis of disability, race, color, gender, or national origin in its education programs, activities, or employment policies as required by Title IX of the Civil Rights Act of 1964, Title IX of the 1972 Education Amendments, or Section 504 of the Rehabilitation Act of 1973. Inquiries regarding compliance should be directed to the Office of the Assistant Superintendent, 801 Bellevue Avenue, Laureldale, PA 19605, telephone 610-921-8000, or to the Director of the Office for Civil Rights, Department of Education, Washington, DC.

I. PURPOSE OF THIS MANUAL

This guide to the educational programs available at Muhlenberg High School shows that approximately two-thirds of the courses selected each year are required, while the other third of the courses are elective. The elective courses should reflect a student's academic abilities, achievements, interests, and educational or career goals. The faculty and Counseling Department will assist students in making course selections. Careful consideration by students and their parents, together with this assistance from the faculty and Counseling Department, should result in a program that satisfies the student's needs.

II. PLANNING A PROGRAM

The students, parents, teachers, and counselors should all be involved in the planning of a sound educational program. This program, as it unfolds and develops from year to year, should result in an enjoyable, successful, and profitable high school career. The students' ability to continue their education or their readiness for employment will determine how successful this program has been. In planning this program students should:

1. Establish personal goals.
2. Evaluate personal interests, aptitudes, and needs.
3. Learn career entrance requirements as soon as possible. If post-secondary education is required, find out about the entrance requirements as soon as possible.
4. If college is anticipated, visit as many colleges as possible during the 11th & 12th grades.
5. Consult with parents, teachers, and counselors in order to benefit from their experience and the information they can make available.
6. Be prepared to modify the program as their interests change.
7. Make sure all graduation requirements are met.

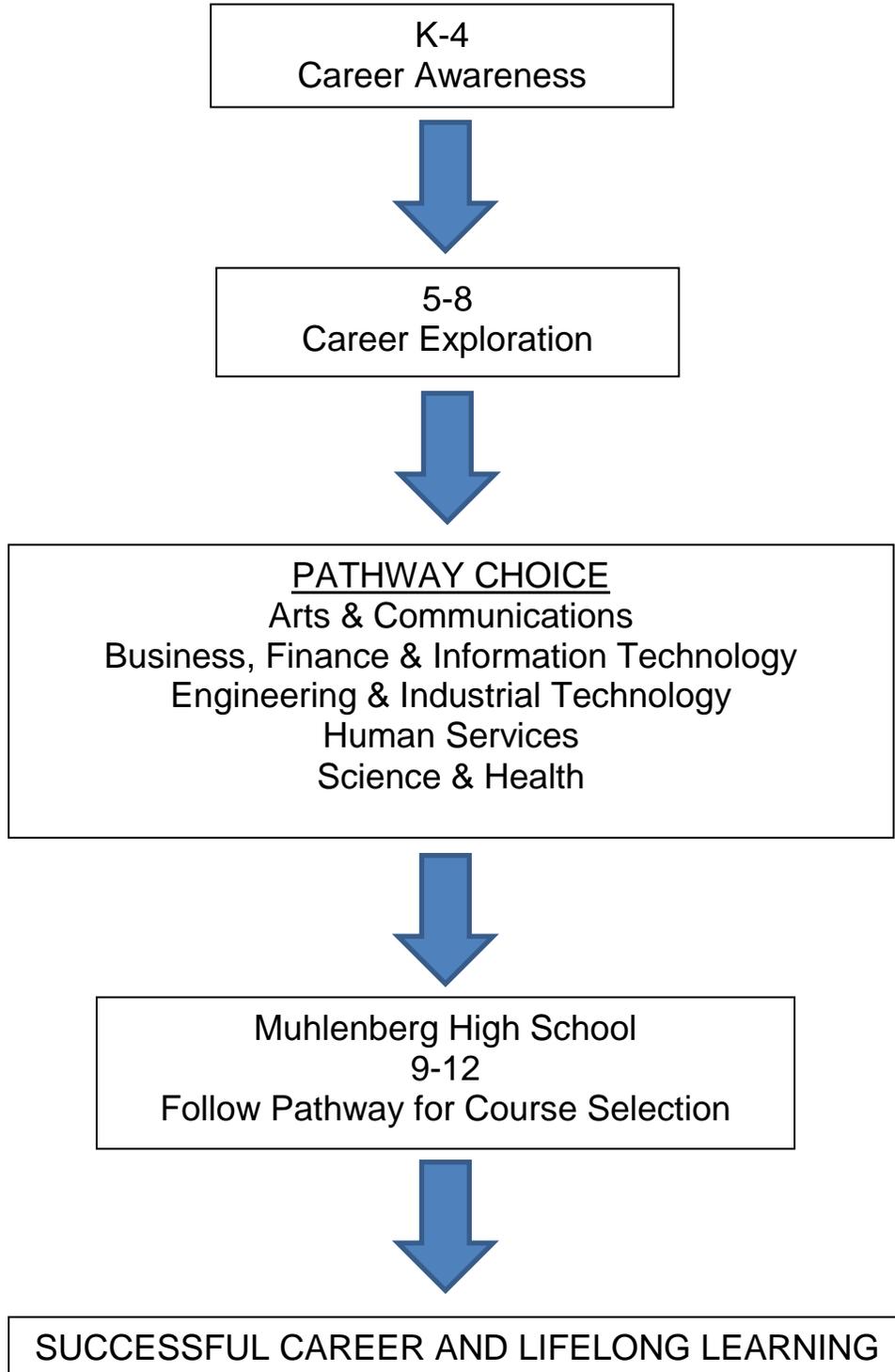
Because the scheduling process is an important commitment, the school requires that parents sign the course selection sheet to note their agreement with the courses to be scheduled for next year. If there are any questions, the counselor should be contacted immediately. The student will receive a completed schedule at the end of the school year. If there are concerns with this schedule, an appointment should be made with the high school counselor. After this time, making schedule changes will be very difficult and only the following reasons will be considered valid for such changes:

1. The course is beyond the academic ability of the student.
2. A major career change makes other courses more important in the student's schedule.

III. PATHWAYS TO SUCCESS

PATHWAYS TO SUCCESS

Muhlenberg School District



PATHWAYS TO SUCCESS

Connecting Career, Curriculum, and Character Education



WHAT ARE CAREER PATHWAYS?

Each pathway is a broad group of careers that share similar characteristics and whose employment requirements call for many common interests, strengths, and competencies. A chosen Pathway focuses a student's courses toward preparing them for a specific goal area.

WHY SHOULD I CHOOSE A CAREER PATHWAY?

- To help focus on a career area that matches interests in high school
- To help set goals and discover classes necessary to achieve those goals
- To create career awareness and encourage planning for post-secondary education and opportunities
- To provide knowledge that relates your high school education to the world after graduation

HOW DO I CHOOSE A CAREER PATHWAY?

- You will research various career fields in 9th grade
- Your counselors, parents, and teachers can assist you with this choice

WILL THERE BE A MY CHANGE IN MY MAJOR ACADEMIC STUDIES?

- No, you will still take all required core courses at the AP, honors, or college prep levels
- You will still follow the graduation requirements listed

THE 5 PATHWAY OPTIONS



Arts & Communication (AC)- Designed to cultivate students' awareness, interpretation, application, and production of visual, verbal, and written work.

- Performing Arts
- Visual Arts
- Publishing Arts

Business, Finance & Information Technology (BFI)- Designed to prepare students for careers in the world of business, finance, and information technology.

- Marketing, Sales, and Service
- Finance
- Information Technology
- Business Management

Engineering & Industrial Technology (EI)- Designed to cultivate students' interests, awareness, and application to areas related to technologies necessary to design, develop, install, or maintain physical systems.

- Engineering and Engineering Technology
- Construction and Architecture
- Manufacturing
- Transportation, Distribution, and Logistics

Human Services (HS)- Designed to cultivate students' interests, skills, and experience for employment in careers related to human and family needs.

- Counseling and Personal Care
- Education
- Law, Public Safety and Government
- Hospitality and Tourism

Sciences & Health (SH)- Designed to cultivate students' interests in the life, physical and behavioral sciences. In addition, the planning, managing and providing of therapeutic services, diagnostic services, health information and biochemistry research development.

- Health Science
- Agriculture, Food, and Natural Resources
- Science, Technology and Math

IV. GRADUATION REQUIREMENTS

A. For a student to be eligible for graduation, the student shall:

1. Demonstrate mastery of academic standards as defined by Chapter 4, "Curriculum" from the State Board of Education Regulations, PA School Code.
2. Complete a minimum number of credits as defined below.
3. Complete all other requirements developed in conjunction with PA Dept. of Education regulations or as approved by the Muhlenberg School District and presented in district publications.

The process for fulfilling the above requirements is as follows:

- a) Academic Standards - Students must successfully master the content embedded in the high school planned courses, which are developed in accordance with the Pennsylvania academic standards approved by the Pennsylvania State Board of Education. Course descriptions are obtainable from the Educational Planning Guide which is revised on a yearly basis and available in the high school Counseling Office or on the school district web site. Complete copies of the curriculum for each course are available in the main office at the high school.
- b) Course/Credit Requirements - Students shall accumulate a minimum of 24.00

<u>Full-Time Muhlenberg Students</u>	<u>Credits</u>	<u>Career & Technology Students</u>	<u>Credits</u>
English	4.00	English	4.00
Social Studies*	4.00	Social Studies*	4.00
Mathematics***	4.00	Mathematics***	4.00
Science***	4.00	Science***	3.00
Arts/Humanities	2.00	Arts/Humanities	1.00
Driver Education	0.25	Driver Education	0.25
Family & Consumer Science	0.25	Family & Consumer Science	0.25
Career Explorations	0.25	Career Explorations	0.25
Wellness Education**	2.25	Wellness Education**	2.25
Electives	3.00	Electives	5.00

* Students shall complete at least one credit of Economics/Government as part of the Social Studies curriculum.

**Students must successfully complete a Wellness Education course each year, grades 10-12

***Although it is highly recommended for students to take both a Math and Science credit all four years, students are required to successfully complete a Math, Science or Computer Science credit their senior year.

ARTS/HUMANITIES ELECTIVES

Introduction to Drawing & Painting	Fashion	Spanish I
Introduction to Crafts	Parenting/Working With Young Children (s)	Spanish II
Advanced Drawing & Painting	Computer Aided Drafting	Spanish III
Advanced Crafts	Architectural Drawing & Design	Spanish IV
AP Art History	Engineering Design	AP Spanish
AP Studio Art	Construction Technology I	German I
Contemporary 2-D Design	Digital Media Technology	German II
Exploring Sculpture: 3-D Design	Material & Processes I	German III
Theatre Arts	Material & Processes II	German IV
Multicultural Arts	TV & Video Production	Major Music I
Creative Living	Latin I	Major Music II
Multicultural Foods	Latin II	Major Music III
Family Foods	Latin III	Digital Music
Cook Once, Eat Twice (s)	Latin IV	Steel Drums I
		Voice Class

OTHER ELECTIVES

Advanced Accounting	Basic Accounting	Personal Financial Planning
AFJROTC	Business Management	Programming with Python
AP Computer Science Principles	Computer Game Design & Programming	Speech Elective (s)
AP Computer Science A	Criminal Justice (s)	Sports & Entertainment Mktg
AP European History	General Psychology	This Generation (s)
AP Psychology	Intro to Sociology	Writing Elective (s)
AP World History	Mobile App Development & Programming	

(s) = semester course. Semester courses are worth 1/2 credit. All others are worth one credit.

The general elective requirement may be fulfilled by completing any of the elective courses in the English, Mathematics, Science, Social Studies, AFJROTC, and Business curricula. This requirement may also be fulfilled by completing additional courses from the list above.

In addition to the above course requirements, students are also required to complete the following to be eligible for graduation:

Note: Children with disabilities who satisfactorily complete a special education program developed by an Individualized Education Plan team under the Individuals with Disabilities Education Act and in conjunction with graduation requirements stipulated in Chapter 4 shall earn and be issued a regular high school diploma. This section also applies if the special education program of a child with an Individualized Education Plan related to disability does not otherwise meet all requirements of Chapter 4 but the child completes goals for graduation requirements established by the IEP team.

B. Standards Assurance

The Assistant Superintendent/ Designee will insure that the curriculum of Muhlenberg High School meets the requirements of Chapter 4.

V. RANKING

Students in grades 9 through 12 will be ranked at the end of the academic year by using final grades. Ranking will be based on all subjects carried, with the exception of chorus/band and any Pass/Fail courses. The students with the highest grade point averages based upon final grades only will be ranked first, etc.

Procedure for selecting commencement speakers: After the third quarter of the senior year, the rank of the top 10 students will be figured by using final grades from grades 9, 10, and 11, and the average of the first three quarters of grade 12. The students will be ranked by order of highest grade point average to the lowest. The honor graduates (commencement speakers) will be the highest-ranking seniors at the end of the third quarter senior year.

VI. ADVANCED PLACEMENT COURSES

Students who wish to elect an advanced placement course must meet the following criteria before the course is scheduled:

1. The student must have an overall GPA of 3.0 for the year prior to enrolling in the course and at least a 90% average in the major subject area for the previous year for which the student is enrolling. Teacher recommendation may also be used to determine eligibility for AP classes in lieu of the required 90% average and/or 3.0 GPA. Final determination of eligibility will rest with the high school principal. It is strongly recommended that the student has previously taken Honors-level courses in the subject area of the AP course in which he/she is enrolling.
2. Prior to the close of school in the current year, the student must make an appointment with the teacher responsible for the course to determine possible summer reading or project requirements. All students requesting these courses must complete the Summer Assignments Policy at the time of course selection. This document can be found on page 52.
3. All students enrolled in the AP courses are encouraged to take the AP exam at the student's expense.
4. The AP courses will be weighted only if the student takes the midterm exam and either the AP exam or the final exam for that AP course.
5. The Keystone exam incentive does not apply to any student enrolled in an AP class.
6. Any AP class with an enrollment of nine or less students will be cancelled.

In order to receive college credit for an AP course, students must take the AP exam associated with each course. A score of 3 or better--on a scale of 1 to 5--is usually required to receive college credit. **Beginning in the 2019-20 school year, students will be required to register and pay for AP exams by October. Any student that adds or cancels an AP exam after the October deadline will incur a \$40 fee. These changes have been set forth by the College Board to all schools participating in the AP program.**

VII. DUAL ENROLLMENT

Muhlenberg High School and Reading Area Community College have established a Dual Enrollment Agreement. Students enrolled in a Muhlenberg High School course, which is approved as a dual enrollment course may choose to participate, at the student's expense, in RACC's Dual Enrollment Program. All dual enrollment courses are offered during the school day at MHS. By choosing to participate in the program, tuition is paid directly to RACC, and in turn college credits are earned, while the student is currently still in high school. Below is a list of the courses that have been approved for the dual enrollment program, along with RACC's course equivalencies. Enrollment is voluntary and takes place in September at the student's expense.

Muhlenberg Core Courses for 2020-2021:

READING AREA COMM COLLEGE	COLLEGE CREDITS	MUHLENBERG HS COURSE
BIO 150-1508 – Biology I	4	AP Biology
BIO 155-3508 – Biology II	4	AP Biology
BUS 100-1503 – Introduction to Business	3	Business Management
CHE 150-1508 – Chemistry I	4	AP Chemistry
CHE 155-3508 – Chemistry II	4	AP Chemistry
COM 151-3501 – Fundamentals of Speech	3	Speech Elective
ENG 125-1505 – Intro. To Literature	3	AP Literature
ENV 130-1504 – The Environment	3	AP Environment
HIS 110-1509 – US History I: Foundations of American Society	3	AP US History (9 th)
HIS 115-3509 – US History II: The Emergence of Modern American	3	AP US History (9 th)
HIS 120-1503 – Western Civilization I: Foundations of European Society	3	AP European History
HIS 125-3505 – Western Civilization II: Europe and the World	3	AP European History
POS 130-1506 – American Government	3	AP Government
MAT 150 – Foundations of Mathematics	3	Advanced Algebra II
MAT 180 – Precalculus	3	Precalculus Honors
MAT 210-1506 – Statistics	3	AP Statistics
MAT 220-1510 – Calculus I	4	Calculus Honors
MAT 220-1510 – Calculus I	4	AP Calculus AB
MAT 221-3508 – Calculus II	4	AP Calculus BC
PHY 240-1506 – Physics I	4	AP Physics
PHY 245-1503 – Physics II	4	AP Physics
PHY 240-1507 – Physics I	4	AP Physics I
SPA 101-1505 – Spanish I	3	Spanish III
SPA 101-1506 – Spanish I	3	Spanish III
SPA 102-3505 – Spanish II	3	Spanish IV

VIII. POLICY: MEETING COURSE REQUIREMENTS

Students may schedule no fewer than six major subjects (a major subject is any course that meets every day of the cycle; two one-semester courses that meet each day are the equivalent of one major subject). Students are encouraged to take a seventh full-time subject.

Students may not drop or add courses during the school year except by permission of the principal. In granting such permission, recommendations of teachers, reasons for such a change, test scores, past records, and personal and/or career goals are considered in rendering a judgment. Students who receive permission to drop courses may do so with the following notations placed on their permanent record:

Full Year Courses

1. If dropped before the start of the second marking period, no notation of having entered the course will be placed on the permanent record.
2. If dropped after the end of the first marking period, the notation WP for “withdrew passing” or WF for “withdrew failing” will be placed on the permanent record.

Semester Courses

1. If dropped before the twenty-third day of the course, no notation of having entered the course will be placed on the permanent record.
2. If dropped after the twenty-third day of the course, the notation WP for “withdrew passing” or WF for “withdrew failing” will be placed on the permanent record.

IX. SUMMER SCHOOL/CREDIT RECOVERY

Students may repeat failed courses at a recognized summer school/credit recovery program with approval of the high school principal. Students can enroll in a maximum of two summer school/credit recovery courses. *Students must enroll in Muhlenberg’s Summer School/Credit Recovery Program if the course they failed is offered here. Courses repeated in summer school/credit recovery will be recorded as the grade earned and credit for the course will be given. Summer school/credit recovery courses taken at Muhlenberg High School will be included in a student’s grade point average (GPA) once those courses have been passed.*

Students should understand that permission to enroll in summer school/credit recovery courses may not be granted if circumstances indicate that minimum or no effort was exhibited by the student in the failed course during the school year.

Occasionally, a student may be given permission by the principal to enroll in two English, Social Studies, Math, or Science courses during a school year in order to make up a required subject. This permission is granted primarily for senior students only and doubling up on courses should not be expected.

X. COURSE AVAILABILITY

The courses described in this guide are offered if sufficient enrollment numbers are reached. Courses may be cancelled if minimum enrollments are not met. When the number of students requesting a course exceeds the number of openings, preference will be given to seniors, first; juniors second; etc. If courses are dropped from the master schedule or eliminated due to conflicts, the student will be notified and given the opportunity to make other selections.

SPECIAL NOTE: Some courses may be offered in a variety of patterns (i.e.: a ½ credit course may be offered for six days per cycle during one semester or for three days per cycle for the entire school year). The decision on how to offer each course will be based on the pattern that will allow the most students to schedule a particular course.

XII. TESTING PROGRAMS

TESTING PROGRAMS

Keystone Exams

Grade: 8, 9,10

The Keystone Exams are end-of-course assessments designed to assess proficiency in the subject areas of Algebra I, Literature, and Biology. The Keystone Exams are one component of Pennsylvania new system of high school graduation requirements. Keystone Exams will help school districts guide students toward meeting state standards.

ACT- American College Test

Grade: 11 and 12

Description: The ACT is a college admission test consisting of four parts: English, Math, Reading, and Science Reasoning. Completion with satisfactory scores is require for college entry. Many health majors are encouraged to take this test. Fee and registration information and practice booklets may be obtained via ACT's website. Fee waivers are available for students who qualify for free/reduced lunch. Students are encouraged to register online at www.act.org.

AP Exam- Advanced Placement Exam

Grade: 10, 11, 12

Description: The AP exam is the culmination of the Advanced Placement course. This exam is taken at the end of the course. It is given during the school day during the first two weeks of May, as designated by the CollegeBoard. Satisfactory scores on this exam can earn a student college credit when they enroll in college. Fee waivers are available to help reduce the cost of the test for those students who qualify for free/reduced lunch.

ASVAB

Grade:10, 11, 12

Description: The Armed Service Vocational Aptitude Battery is offered to any student in grades 10-12. This test consists of eight short individual tests and measure verbal skills, math skills, and science and technology skills. The test is given one time per year at the high school during the day.

PSAT/NMSQT

Grade 10 and 11

Description: The Preliminary Scholastic Aptitude Test is a practice SAT test and is open to all college-bound students in grades 10-11. It is administered only once per year in October at the high school during the school day. Not only does it serve as a practice test, but scores earned in the junior year determine eligibility for consideration in the National Merit Scholarship Program. There is a nominal fee for this exam. Fee and registration information may be obtained through the Counseling Office. Fee waivers are available for 11th grade students who qualify for free/reduced lunch.

SAT- Scholastic Aptitude Test

Grade 11 and 12

Description: The SAT is a college admission test made up of three sections: Critical Reading, Math, and Writing. Completion with satisfactory scores is required for college entry. Juniors are encouraged to take the test at least two times the spring of their junior year. Fee and registration information and practice materials may be obtained via the CollegeBoard website. Fee waivers are available for students who qualify for free/reduced lunch. Students register online at www.collegeboard.com. +

XIII. RMCTC ABSENCE PROCEDURES

RMCTC recognizes that regular attendance and punctuality are vital to achievement. The educational program provided by RMCTC is predicated upon the presence of the student and requires continuity of instruction and classroom participation. Attendance is required for students enrolled in programs at RMCTC during the days and hours that the center is in session as governed by the state law.

1. Absences will be considered unlawful until the school receives a written excuse signed by a parent/guardian for the absence. RMCTC and the home school require separate written notes for each absence. **Therefore, a student needs two excuse notes when absent; one for RMCTC and one for the home school.**
2. Written excuses MUST be submitted within three (3) school days to be considered valid. If an acceptable written excuse is not submitted within three (3) days, the absence becomes “unlawful” for students under the age of 17 and “unexcused” for those students 17 and older.
3. Absences of three (3) or more consecutive days require a physician’s excuse.
4. After ten (10) cumulative absences, whether unlawful, unexcused or excused solely by a parental note, an **excuse from a physician is required**. If a physician’s note is not received, the day(s) will be considered unlawful or unexcused.

XIV. RMCTC GRADE REPORTING

Purpose: The intent of this grading procedure is to provide a student grade that accurately reflects student achievement. Progress is measured in the areas of work ethic, knowledge and the practical skills aligned to the program area learning guides. Student performance for learning guide activities and assignments are reflected in the knowledge grade. Students will be evaluated according to established program standards on an individual basis. The ClassMate grading software automatically calculates student grades using the following formula:

Work Ethic	40%
Knowledge	60%
	100%

Teachers must be able to justify grade percentages in the event of inquires or concerns.

Interpreting a Grade:

Work Ethic Grade (40%): Each school day, every student receives a Work Ethic or daily grade. Criteria that comprise these grades are safety, student behavior, preparation/participation, productivity or time on task, professional appearance and extra effort. The Work Ethic grade range is based on a 0 to 10 model that students may earn each day depending on how many criteria they satisfactorily meet.

NOTE: Impact of Absenteeism, Tardiness/Early Dismissals - The direct effect of absenteeism on a students’ grade will be through the Work Ethic component of the grading formula. If a student is Tardy or has an Early Dismissal the Work Ethic grade will automatically be defaulted to a five (5) from a possible ten (10) points. The instructor may change this value as they see fit.

Knowledge Grade (60%): Throughout the marking period, a student’s cognitive knowledge about various career-specific topics will be evaluated and recorded by the instructor. Examples of knowledge activities include: lab/shop assignments, homework, quizzes, tests, and research activities. The Knowledge grade range is based on actual points earned divided by the total accumulative points.

Skill (Learning Guide): Learning guides are normally aligned to lab assignments or shop projects where a student will physically perform a task. The student and teacher will discuss, at the beginning of each quarter, student expectations and the required tasks that must be completed or “contracted” by the end of the marking period. This allows a student to work productively with the expectation to make constant progress during the marking period. All assignments, activities and rubrics associated with learning guides are documented in the “knowledge” grading component. It is important to note that poor productivity will have a negative impact on a student’s grade.

NOTE: For the purpose of students earning a job title associated with their program area, teachers track students’ skill/task work. Teachers identify specific criteria to evaluate each task performed, ranging from a 0 to 5 (not completed to mastery). Students must earn a 4 or 5, in order to credit the task towards earning the specific job title. Students have the opportunity to revisit a task multiple times until successfully receiving credit. The job titles a student earns will be listed on the student’s RMCTC certificate that is awarded at Senior Recognition Night.

GRADE REPORTING (continued)
CTC Letter Conversion Table Grade Letter

100 – 97 A+
96 – 93 A
92 – 90 A-
89 – 87 B+
86 – 83 B
82 – 80 B-
79 – 77 C+
76 – 73 C
72 – 70 C-
69 – 65 D
64 – under F

Final Grade average is based on the student's four (4) numerical marking period grades. The final average will directly align to the letter conversion table listed above.

If a student has three (3) marking period grades of "F" the teacher shall give appropriate consideration to that student not passing for the year. If a student is on an **upward trend** at the end of the school year, this **may** justify having the student pass for the year. If the opposite is true, and the student is on a **downward trend**, the student **should** receive a failing grade.

The individual teacher must evaluate each student's achievement in terms of the expected goals for their program area.

Failure to complete assignments, frequent lateness or absence, and demonstrated indifference to school are major contributors to student failure. **Blatant refusal** to attempt or to complete a significant number of course requirements may, by itself, justify a final course grade of "F".

The following divisions are given as a guide to recording and interpreting the grading system. It remains for each teacher to objectively and fairly rate each student, not based upon personality, but performance.

Determination of Grades: Teachers will give thorough consideration using all grading components in determining students' grades to both class work and test results.

A = Excellent

1. This grade represents **superior work** and is distinctly an honor grade.
2. The excellent student **has reached all course objectives** with high quality achievement.
3. The excellent student displays unusual effort and works willingly and effectively in reaching required objectives.

B = Good

1. This grade represents **above average** quality achievements.
2. The good student **has reached a large majority of course objectives**.
3. The good student is industrious and willing to follow directions.

C = Average

1. This grade represents **acceptable** quality achievements.
2. The average student **has reached a majority of course objectives**.
3. The average student is cooperative and follows directions, yet extra effort and improvement are needed for more complete mastering of the material.

D = Passing

1. This grade represents a **minimum acceptable** quality achievement.
2. The student is performing below-average work and **has not reached a majority of course objectives**.
3. This achievement level indicates there is a great need for improvement, daily preparation and improved dedication and attendance.

F = Failure

1. This grade represents **unacceptable** quality achievements.
2. The failing student **has not reached necessary course objectives**.
3. The failing student has not attempted to complete assignments, is constantly late or absent, and generally has failed to accomplish the fundamental minimum essentials necessary in the program area.
4. It may be noted that generally a student does not fail because of a lack of ability; failure may be caused by laziness, non-dedication, or a general disregard to directions of the teacher and the unwillingness to use whatever ability he/she possesses.

Incomplete Grades: Incomplete grades must be updated no later than ten (10) days from the close of the marking period. As soon as the work is completed and the grade is available, it must be reported to the appropriate person.

Failures: Students who receive a failing final grade in a program area are permitted to repeat that program, but are urged not to do so for obvious reasons. If this situation presents itself, students and parents are advised to consider an alternative program which is probably more suited to the student's true interests and aptitudes and not merely satisfying a short-term or unrealistic desire.

Attendance and its Impact upon Grades: The importance of regular school attendance and its positive impact upon a student's performance grade cannot be overstated. If a student is absent, he or she does not have the opportunity to keep pace with their classmates and must work independently to acquire the information missed during any absence. Regardless of how well a student performs when he/she is present, habitual absenteeism usually results in a failing performance grade. This situation is not unlike the conditions of the business or industry for which the student is being trained.

Make up Work for Absences: Students have the opportunity to make-up school work due to an illness/being absent from school. **PROVIDED** their absence is excused. Students must submit make-up work within the following timelines:

1. One (1) to three (3) days excused absences – five (5) school days to complete assigned work.
2. Four (4) or more days excused absence – ten (10) school days to complete assigned work.

All work missed through unexcused absences will be graded as a zero

Report Cards (see Progress Reports): Students will receive a report card from the sending school district which will reflect the student's grade from their Career & Technology classes. In addition, grades are available on the parent portal.

Student Recognition Night: Reading Muhlenberg Career & Technology Center hosts an annual Student Recognition Night, which honors our senior students. During this event, senior students in attendance are recognized and may also receive awards that they have earned relevant to their accomplishments while attending Reading Muhlenberg CTC.

NOTE: Muhlenberg students taking Social Studies at RMCTC will follow the Muhlenberg grading system for their Social Studies grade.

XV. READING-MUHLENBERG CAREER & TECHNOLOGY PROGRAMS: www.RMCTC.org

All career-technical programs are three years in length, and students should enroll in a desired program at the beginning of their tenth grade year. Career-technical areas offered at RMCTC are listed:

936/628/728/756 3D MANUFACTURING TECHNOLOGY (3DT) 2-3 Credits

- ✦ Machine parts on equipment found in the industry, such as engine lathes, milling machines, and state-of-the-art (CNC) Computer Numerical Control machines.
- ✦ Receive industry-recognized certifications from (NIMS) National Institute for Metalworking Skills.
- ✦ Acquire the knowledge needed to enter into employment, apprenticeship programs, and/or post-secondary education.
- ✦ Position yourself to work in an in-demand, highly skilled, high-paying machining career

915/610/710/738 ADVERTISING DESIGN/COMMERCIAL ART (ADC) 2-3 Credits

- ✦ Improve your drawing and painting skills in a variety of media.
- ✦ Design eye-popping graphics for print and the web.
- ✦ Use digital cameras to create stunning pictures and videos, and learn how to use programs like Adobe Photoshop and After Effects to edit like the pros.
- ✦ Prepare a professional print and digital portfolio of your work for entrance into college or the workforce.

916/612/712/740 AUTO BODY REPAIR (ABR) 2-3 Credits

- ✦ Accelerate your passion for the automotive industry by learning non-structural, refinishing, mechanical/electrical, structural, and safety.
- ✦ Expand your career options by obtaining industry skills and certifications as you develop as an individual.
- ✦ Graduate from RMCTC with confidence, knowing you have the work ethic and skill set to be a successful contributing member of society.
- ✦ Gain confidence and become innovative: take your passion, certifications, work ethic, skill set, and confidence; now give yourself the opportunity to succeed.

917/613/713/741 AUTOMOTIVE TECHNOLOGY (ATT) 2-3 Credits

- ✦ Develop the skills necessary to perform proper hands-on vehicle repair.
- ✦ Expand your career options by earning your PA State Safety & Emissions Inspection certifications.
- ✦ Maintain, diagnose, analyze, and repair basic-to-advanced automotive systems.
- ✦ Learn the 3 "C's" – complaint, cause, and correction – used in the automotive repair industry.
- ✦ Perform a wide variety of hands-on repairs and experience the "live" automotive repair industry environment.

918/614/714/742 BAKING & PASTRY ARTS (BAK) 2-3 Credits

- ✦ Plan and prepare a variety of desserts and pastries in both small and large batches that can be served in a variety of establishments, from casual to fine dining settings.
- ✦ Work, hands-on, using state-of-the-art kitchen tools and equipment found in large and small industrial kitchens and bakeries.
- ✦ Earn industry-recognized certifications and develop employability skills including resume preparation, interview techniques, and inter-personal skills that prepare students for competitive employment opportunities locally and abroad within the growing and diverse baking and hospitality industry.
- ✦ Acquire practical knowledge and skills necessary for entry-level employment, along with preparation for academic success at the post-secondary level in either a community college, technical school, or a four-year college or university.

919/615/715/743 BRICKLAYING (BRK) 2-3 Credits

- ✦ Construct masonry structures specializing in fireplace and arches with the use of hand tools, power tools and other materials while maintaining a safe environment.
- ✦ Discover how to manage construction projects by applying skills such as blueprint reading and estimating labor and materials.
- ✦ Install floor tile, repair old or damaged masonry work and lay hardscape pavers using a variety of masonry materials.

920/616/716/744 BUILDING & PROPERTY MAINTENANCE (BPM) 2-3 Credits

- ✦ Construct, erect, install, and repair all residential building components.
- ✦ Operate power tools, interpret construction documents, produce estimates, and evaluate and perform project cost analysis.
- ✦ Earn industry-recognized, valuable certifications, such as OSHA, PBA, and fork lift certifications.
- ✦ Fabricate, weld, and machine metal materials.

922/618/718/746 CARPENTRY (CAR) 2-3 Credits

- ✦ Construct buildings and structures for residential housing.
- ✦ Remodel and restore existing homes and businesses.
- ✦ Discover how to manage construction jobs from beginning to end and coordinate and schedule subcontractors and material deliveries.
- ✦ Operate tools and equipment to build structures from a variety of materials such as wood, steel, vinyl, and concrete.
- ✦ Travel to different work sites, meet new people, employers, and customers, and work both indoors and out to complete structures and learn about the construction industry.

- 923/619/719/739 COMPUTERIZED DRAFTING TECHNOLOGY (CDT) 2-3 Credits**
- ✦ Earn user certifications for the three industry standard softwares.
 - ✦ Prepare for a professional career as a certified drafter in the architectural or mechanical design fields.
 - ✦ Model and create objects with a 3D printer.
 - ✦ Design a future home for yourself or family.
 - ✦ Utilize the latest software in the drafting and entertainment industries on powerful, high speed computers with dual monitors.

- 924/620/720/748 COSMETOLOGY (COS) 2-3 Credits**
- ✦ Discover your creative, artistic abilities designing various hair styles and nail art.
 - ✦ Prepare for an exciting, rewarding career working in a salon or spa atmosphere.
 - ✦ Imagine yourself as a world renowned haircutter/hairstylist in your own salon or teaching other stylists.
 - ✦ Receive a State Board of Cosmetology license upon completion of the state mandated 1,250 hours and the passing of state boards.

- 925/621/721/749 CULINARY ARTS (CUL) 2-3 Credits**
- ✦ Experience working with a professional chef while utilizing state-of-the-art equipment typically found in local and upscale restaurants.
 - ✦ Prepare for employment opportunities locally, abroad, and in exotic locations within the growing and diverse food and hospitality industry.
 - ✦ Discover your artistic talents and abilities as you develop skills while pursuing your career in the culinary arts.
 - ✦ Acquire the necessary skills and knowledge for post-secondary education or entry-level employment opportunities.

- 926/622/722/750 DIESEL TRUCK TECHNOLOGY (DTT) 2-3 Credits**
- ✦ Receive training in order to obtain your PA State Inspection certifications in auto/light truck, heavy truck/trailer, and emissions.
 - ✦ Prepare for a future in the diesel powered Industry, whether it is medium or heavy duty trucks, tractor, or construction equipment.
 - ✦ Develop the skills necessary to obtain knowledge to perform on- and off-vehicle repairs needed in the diesel repair Industry.
 - ✦ Utilize computers in the shop to diagnose problems on vehicles and how to repair them.

- 927/623/723/751 EARLY CHILDHOOD EDUCATION (ECE) 2-3 Credits**
- ✦ Acquire knowledge of the four areas of child development: physical, cognitive, social, and emotional to develop proper guidance and discipline techniques.
 - ✦ Create meaningful learning activities for preschool-aged children.
 - ✦ Assist teachers in an established preschool laboratory with daily activities and classroom management.
 - ✦ Prepare for employment in the childcare industry by earning the Child Development Associate Certification.
 - ✦ Enhance knowledge and prepare for college as an elementary school teacher

- 928/624/724/752 ELECTRICAL TECHNOLOGY (ELT) 2-3 Credits**
- ✦ Design and construct electrical systems in homes and businesses.
 - ✦ Develop the skills and knowledge needed to build electrical systems.
 - ✦ Successfully transition into a first career job and/or related post-secondary training.
 - ✦ Interact with local electrical industry experts.

- 947/690/786/767 ENGINEERING & AUTOMATION TECHNOLOGY (EAT) 2-3 Credits**
- ✦ Develop the knowledge of diverse engineering systems, including electrical, mechanical, hydraulic, pneumatic, and PLC controls.
 - ✦ Learn test equipment, soldering techniques, design and troubleshoot mechanical and electrical systems, motor controls, and PLC technology.
 - ✦ Effectively apply problem-solving and leadership skills in a field that offers a multi-disciplinary approach to product and manufacturing system design.
 - ✦ Enroll in a challenging and rewarding program leading to “high priority” jobs right here in Berks County or continue onto a post-secondary college of your choice.
 - ✦ Technical Academy eligible up to 29 credits while in high school.**

- 946/630/787/794 HEALTH – DENTAL OCCUPATIONS (HDO) 2-3 Credits**
- ✦ Prepare for a professional career as a dental assistant or for further education as an expanded-function dental assistant, dental hygienist, dental lab technician, or dentist.
 - ✦ Experience the satisfaction of providing high quality patient care in a team-oriented, modern dental office environment.
 - ✦ Perform a wide variety of dental office duties with other dental professionals that include taking x-rays, mixing materials, passing instruments, sterilization and receptionist duties.
 - ✦ Work alongside other dental professionals to ensure patients receive the highest quality dental care.
- 930/686/783/791 HEALTH – MEDICAL PROFESSIONS (HMP) 2-3 Credits**
- ✦ Engage in off-site medical career explorations at local health facilities.
 - ✦ Explore specific professional programs, such as occupational therapy, physical therapy, respiratory therapy, massage therapy, and alternative therapies.
 - ✦ Investigate surgical and pharmacological procedures.
- 931/687/784/792 HEALTH – MEDICAL CAREERS (HMC) 2-3 Credits**
- ✦ Practice skills used in nursing, nursing assisting, medical office, and coding/billing professions.
 - ✦ Learn not only the language of medicine but also sign language and Spanish-medical translation.
 - ✦ Engage in off-site medical career explorations at local health facilities.
 - ✦ Prepare for entry-level and post-secondary educational opportunities.
- 932/688/785/793 HEALTH – NURSING CAREERS (HNC) 2-3 Credits**
- ✦ Engage in off-site medical care explorations at local health facilities.
 - ✦ Prepare for a professional health career with high growth and high paying opportunities.
 - ✦ Perform a wide variety of nursing skills that include making a hospital bed, transferring a patient from the bed to a wheelchair, utilizing a mechanical lift, and taking vital signs.
 - ✦ Explore the topics of anatomy and physiology, medical terminology, communication skills, and work ethics skills.
- 948/689/788/795 HEALTH – SPORTS MEDICINE & REHABILITATION (HSM) 2-3 Credits**
- ✦ Prepare for further education and a professional career in the sports medicine and rehabilitation fields, such as athletic training, physical therapy, occupational therapy, sports medicine, and other related fields.
 - ✦ Design safe and effective exercise prescriptions, individual exercise programs, and fitness testing.
 - ✦ Perform a wide variety of healthcare skills to aid in the successful treatment of patients.
- 933/627/727/755 HORTICULTURE (HRT) 2-3 Credits**
- ✦ Discover the rewards of growing a variety of plants to feed your family and beautify your surroundings.
 - ✦ Create unique floral designs for all occasions.
 - ✦ Explore the many aspects of the landscape industry, including the operation of various types of equipment, development of water features, and the principles of landscape design.
 - ✦ Become an innovative greenhouse grower specializing in production horticulture, aquaculture, and other sustainable environmental practices.
- 934/600/700/702 INFORMATION TECHNOLOGY APPLICATIONS – (ITA) 2-3 Credits**
- ✦ Technical Academy eligible up to 24 credits while in high school.**
 - ✦ Explore the computer inside and out with hands on learning, become familiar with home networks, the internet, and social networks, and Design, modify, and maintain professional documents.
 - ✦ Build business related databases used in every business and prepare financial statements using accounting principles and software.
 - ✦ Creatively code and design interactive computer programs and explore the creative processes needed to be in a supervisory position and lead others.

- 935/602/704/706 INFORMATION TECHNOLOGY WEB DESIGN – (ITW) 2-3 Credits**
- ✦ Explore and prepare for different areas of web design, including graphics, design, coding, and formatting for search engine optimization.
 - ✦ Prepare different types of web designs based in the needs of the client, for example business, e-commerce, informational, etc.
 - ✦ Explore additional computer skills taking apart a computer and figuring out how the components work.
 - ✦ Develop your programming skills making mobile phone apps, web-enabled JavaScript games, and other computer programs.
 - ✦ Technical Academy eligible up to 24 credits while in high school.**
- 937/629/729/757 MOTORCYCLE/MARINE/SMALL ENGINE TECHNOLOGY (MME) 2-3 Credits**
- ✦ Acquire the skills necessary to obtain knowledge and hands-on experience to work on today's sophisticated vehicles.
 - ✦ Receive training in order to obtain your PA State Inspection certifications.
 - ✦ Apply the skills learned to perform factory maintenance and repair of factory machinery.
 - ✦ Develop and apply the skills needed to perform repairs on equipment from lawn care machines to small diesel engines.
- 938/631/731/758 PAINTING & DECORATING (PID) 2-3 Credits**
- ✦ Design creative living and work spaces that fit the needs of clients.
 - ✦ Analyze and perform various painting techniques including faux finishing.
 - ✦ Refurbish broken and outdated furniture using innovative materials and techniques.
 - ✦ Develop the necessary skills to create and deliver innovative spaces using the principles of design
- 939/632/732/759 PLUMBING & HEATING (PLH) 2-3 Credits**
- ✦ Design and build residential and industrial plumbing systems.
 - ✦ Install kitchen and bathroom fixtures using state of the art hand tools, power tools, and equipment.
 - ✦ Repair and replace older plumbing fixtures and faucets with modern tools and equipment used by master plumbers.
 - ✦ Obtain OSHA 10-Hour Safety Certification required by most plumbing contractors
- 940/633/733/760 PRINTING/GRAPHIC COMMUNICATIONS (PRI) 2-3 Credits**
- ✦ Create eye-catching signs, banners, and other marketing materials that you will produce using the newest equipment that the industry has to offer.
 - ✦ Use the latest technology to create printed materials for local business & industry.
 - ✦ Prepare students for employment in the fast-growing field of digital output.
 - ✦ Create projects using Adobe Illustrator, Photoshop, and InDesign, and a digital camera.
- 941/634/734/761 PUBLIC SAFETY AND SECURITY (PSS) 2-3 Credits**
- ✦ Experience the thrill and pride of saving lives and protecting the community.
 - ✦ Use the latest technology and equipment available by operating an emergency (9-1-1) dispatch system, collect evidence while investigating a crime scene, demonstrate high-risk traffic stops, and more.
 - ✦ Engage in lifesaving emergency medical treatment, firefighting rescue techniques, and law enforcement operations.
- 914/609/709/707 SERVICE OCCUPATIONS EDUCATION (SOE) 2-3 Credits**
- ✦ Develop the necessary skills needed to obtain competitive entry-level employment in the service industry.
 - ✦ Exhibit workplace readiness and interpersonal skills needed for success.
 - ✦ Increase independence needed for personal and workplace achievement.
 - ✦ Model cooperation and teamwork incorporated in the work force.
- 943/636/736/763 SEWING/CLOTHING MANUFACTURING (SCM) 2-3 Credits**
- ✦ Explore the world of fashion, sewing, and textiles.
 - ✦ Create your own personal garments choosing from a wide variety of fabrics, patterns, and trims.
 - ✦ Experience the apparel industry using a wide variety of industrial equipment.
 - ✦ Utilize this course for entry into the apparel industry directly from high school or as a stepping stone into college.

945/639/782/766 WELDING/METAL FABRICATION (WMF)**2-3 Credits**

- ✦ Work in an occupation that is one of the most desired and highest paying trades in American industry.
- ✦ Acquire expertise in areas of stick, tig, mig, and oxyacetylene welding and cutting.
- ✦ Effectively apply problem-solving and leadership skills in a field that offers a multi-disciplinary approach to welding and manufacturing.
- ✦ Learn proper safety procedures in a complex and challenging trade.

****The Technical Academy is an honors track of the program where select students may take RACC dual enrollment courses toward an associate while enrolled in the RMCTC program. For more info please visit www.rmctc.org**

CAREER & TECHNOLOGY SOCIAL STUDIES COURSES

	AP/Honors/College		Other**
640/641	Am History - Honors	653/654	World St*
642/643	Am History - College	657/658	AP World History
644/645	Am History*		
649/650	World St - Honors		
651/652	World St - College		

****Note:** 'Other' courses are for bilingual and learning support students.

XVI. ARTICULATION AGREEMENTS**ARTICULATION AGREEMENTS & DUAL ENROLLMENT**

Students who demonstrate high levels of learning and mastery of skills at RMCTC often decide to pursue further education at a college, university, or technical school. Graduates may get a head start on post-secondary education by taking advantage of articulation and dual enrollment agreements.

Articulation and dual enrollment agreements are cooperative arrangements between secondary schools, such as RMCTC and post-secondary schools concerning admission and the granting of college credits to students who are interested in continuing their education. Benefits of articulation agreements may include automatic or priority admission, advanced placement, and/or college credit for mastery of material learned in high school. Reading Muhlenberg CTC has established articulation agreements with a number of post-secondary schools.

SOAR PROGRAM

Students Occupationally & Academically Ready (SOAR) is the Bureau of Career and Technical Education (BCTE) career and technical Program of Study educational plan that coordinates the secondary career and technical programs to the postsecondary certificate, diploma, or degree programs. Students who successfully complete a program at Reading Muhlenberg CTC may be eligible to earn college credits. Participating colleges and credits awarded by CTC program are listed on the SOAR website at www.collegetransfer.net.

WORK BASED LEARNING / INDUSTRY CERTIFICATIONS

Students at RMCTC are eligible to participate in Job Shadowing, Internships, and Work Based Learning opportunities with local business and industry while still attending High School. Such experiences will enhance learning while building a resume to increase employment potential, and will be beneficial to any post-secondary school application.

Through earning of Industry Certifications, RMCTC students are able to gain college credit and/or advanced placement at some post-secondary schools. Also, these Certifications are recognized by industry and often portable from State to State. Industry certifications are invaluable to the student when entering the job market and can provide an advantage to obtaining the job.

XVII. SPECIAL EDUCATION

500 BASIC ENGLISH

Grades 10-12

1 Credit

This course is designed to parallel the general education English class by addressing the same Standards and essential questions. Students will write for a variety of authentic purposes and audiences in the three modes of writing: narrative, persuasive, and informative. Students will gain exposure to a variety of literary genres and their respective characteristics. Students will receive individualized instruction based on their specific writing needs.

530 BASIC MATH

Grades 10-12

1 Credit

This class introduces and teaches effective mathematics strategies through direct instruction to improve computing and problem solving. The program is taught at a variety of levels based on individual student need. The course also works to improve student performance in establishing relationships between concepts and their applications.

551 ADVOCACY II

Grades 10-12

1 Credit

This course is for students to work toward individualized goals with modifications and accommodations. It provides focused instruction in the areas of self-awareness and self-management. Emphasis is on individual student needs. Topics include anger management, accepting responsibility, and social interactions. Other topics include conflict resolution, recognizing character strengths, and refuting labels and stereotypes. Curriculum is a two-year program. Prerequisite(s): Advocacy I.

526 TRANSITION II

Grade 10

1/2 Credit

The 10th grade transition class is designed to place a more detailed emphasis on job exploration, skill assessment, and post-secondary education options. Students will further assess their abilities and interests and learn how to begin identifying appropriate and related post-secondary outcomes based on their self-assessments. Increased participation and understanding of self-advocacy in the IEP meeting will also be explored and role-played. Students will also learn about the agencies and services available to students with disabilities.

548 READING 549 READING

**Grades 10-12
Grades 10-12**

**1/2 Credit
1 Credit**

This course is offered for those students who demonstrate a need for improvement in basic reading skills. It will focus on the use of reading strategies to increase proficiency in decoding, fluency, and vocabulary and text comprehension. This course is taught at a variety of levels based on individual student need.

XVIII. ENGLISH AS A SECOND LANGUAGE EDUCATION - ESL

590 ESL - ENTERING & BEGINNING

Grades 10-12

1 Credit

This course provides new Second Language students with the basic English vocabulary and skills needed for speaking, understanding, reading, and writing in school and outside of school. An important goal of this course is oral communication in English. Students are also given an introduction to American culture and customs. Included in this course are the 21st Century Literacy Skills: Informational, Media, Visual, and Cultural. The focus of the English skills is to prepare students to flourish in today's society and in the future. Regular support is provided to ensure student success in content classes. (*Placement is determined by an English Language Proficiency test and additional academic criteria.*)

590 ESL - DEVELOPING

Grades 10-12

1 Credit

In this course students will continue to build their skills in English through vocabulary development, reading, and writing activities. Students will read a variety of texts including fiction, nonfiction, biographies, and poetry. There is a continued focus on writing strategies and the expansion of oral communication skills. Included in this course are the 21st Century Literacy Skills: Informational, Media, Visual, and Cultural. The goal is the application of English skills is to prepare students to flourish in today's society and in the future. Regular support is provided to ensure student success in content classes. (*Placement is determined by an English Language Proficiency test and additional academic criteria.*)

590 ESL – EXPANDING & BRIDGING

Grades 10-12

1 Credit

The focus of this course is on student competency in both the academic and practical areas of English. Expanded vocabulary development along with the application of reading and writing strategies are emphasized. The English language activities included in this course build critical thinking skills, communication skills, and comprehension skills. Included in this course are the 21st Century Literacy Skills: Informational, Media, Visual, and Cultural. Proficiency in English is the objective so that students can flourish in today's society and in the future. Support is provided on an as-needed basis to ensure student success in content classes. (*Placement is determined by an English Language Proficiency test and additional academic criteria.*)

XIX. COLLEGE PREPARATORY

The college preparatory track is designed for those students planning to pursue a two-year trade school or a four-year college program upon graduation from high school. All college preparatory students, planning to pursue a four-year college program upon graduation, are encouraged to schedule the following courses in order to prepare for the rigors of college academics:

- 4 years of English - college prep or honors
- 4 years of Social Studies - college prep or honors
- 4 years of Mathematics - college prep or honors
- 4 years of Science - lab courses
- 2 years of World Language (minimum)

It is suggested that college preparatory students choose electives in subject areas related to their chosen career pathway.

Research indicates that students selecting a challenging high school program score higher on the SAT I test, find college acceptance easier, and are more successful in academic studies.

SUGGESTED 4-YEAR PROGRAM
COLLEGE PREPARATORY

GRADE 9	CREDIT	GRADE 10	CREDIT	GRADE 11	CREDIT	GRADE 12	CREDIT
English 9 College	1.0	English 10 College	1.0	English 11 College	1.0	English 12 College	1.0
American Cultures I College	1.0	American Cultures II College	1.0	World Cultures College	1.0	Gov't/Economics College	1.0
Biology College	1.0	Chemistry College, Advanced Biology or Gen Physical Science	1.0	AP Physics 1, Chemistry College, General Physical Science, Environmental Science College, or AP Biology	1.0, 1.17, or 1.33	Environmental Science College, Human Anatomy, AP Biology, AP Physics 1 or 2, AP Env Science, or Astronomy & Meteorology	1.0, 1.17, or 1.33
Algebra1 College	1.0	Algebra 2/Geometry College Or Advanced Algebra1/Geometry	1.0	Precalculus College, Advanced Algebra 2, or Algebra 2/Trigonometry	1.0	Calculus Honors, Advanced Algebra 2, Precalculus College, Probability & Statistics, Prob and Stats Sports, or Cons Math	1.0
World Language	1.0	World Language	1.0	World Language	1.0	World Language	1.0
Physical Education	.50	Wellness Education	.5	Wellness Education	.5	Wellness Education	.5
Health I	.25	Driver Education	.25				
Career Explorations	.25	Family & Consumer Sciences	.25				
Elective	1.0	Elective	1.0	Elective	1.0	Elective	1.0

SUGGESTED 4-YEAR PROGRAM
HONORS PROGRAM

GRADE 9	CREDIT	GRADE 10	CREDIT	GRADE 11	CREDIT	GRADE 12	CREDIT
English 9 Honors	1.0	English 10 Honors & American Cultures II Honors	2.0 1.0	English 11 Honors	1.0	English 12 Honors or AP English	1.0
AP US History	1.0	AP European History World Cultures Honors or Coll	1.0	AP World History** World Cultures Honors or Coll**	1.0	AP Gov't or Econ Gov Honors or College	1.0
Biology Honors	1.17	Chemistry Honors	1.17	AP Chemistry, AP Biology, or AP Physics 1	1.33	AP Chemistry, Human Anatomy, AP Biology, AP Physics 1 or 2, or AP Env Science	1.17 or 1.33
Algebra 1 Honors	1.0	Algebra 2/ Geometry Honors, Precalculus Honors/College	1.0	Precalculus Honors/College, Calculus Honors, or AP Calculus AB	1.0	Calculus Honors, AP Calculus AB, Prob & Stats Appl, Prob & Stats Sports, AP Statistics, or AP Calculus BC	1.0
World Language	1.0	World Language	1.0	World Language	1.0	World Language	1.0
Physical Education	.50	Wellness Education	.5	Wellness Education	.5	Wellness Education	.5
Health I	.25	Driver Education	.25				
Career Explorations	.25	Family & Consumer Sciences	.25				
Elective	1.0	Elective	1.0	Elective	1.0	Elective	1.0

**If you took AP US History in grade 9 and World Cultures in grade 10, then you will choose a Social Studies elective for grade 11: AP Psychology, General Psychology, Criminal Justice/This Generation or Intro to Sociology.

SUGGESTED 4-YEAR PROGRAM
CAREER & TECHNOLOGY CENTER

GRADE 9	CREDIT	GRADE 10	CREDIT	GRADE 11	CREDIT	GRADE 12	CREDIT
English 9 College/Hon	1.0	English 10 College	1.0	English 11 College	1.0	English 12 College	1.0
Algebra 1 College/Hon	1.0	Algebra 2/Geometry College or Advanced Algebra 1/Geometry	1.0	Algebra 2/Trigonometry, Precalculus College, or Advanced Algebra 2	1.0	Calculus Honors, Math for the Workplace, Advanced Algebra 2, Precalculus College, Probability & Statistics, or Cons Math	1.0
Biology College/Hon	1.0	Advanced Biology or Chemistry College	1.0 or 1.17	Concepts in Physics, Chemistry College, Environmental Science College, General Physical Science or Advanced Biology Astronomy & Meteorology	1.0 or 1.17		
Am Cultures 9 College/Hon	1.0	CTC Social Studies Coll/Hon or AP World History	1.0	CTC Social Studies Coll/Hon	1.0	Econ/Gov	1.0
		CTC Shop	2.0	CTC Shop	2.0	Government/Economics Coll	3.0
Physical Education	.50	Wellness Education	.5	Wellness Education	.5	Wellness Education	.5
Health I	.25	Driver Education	.25				
Career Explorations	.25	Family & Consumer Sciences	.25				
Arts /Humanities Elective*	1.0						
Elective	1.0						

Ninth grade students intending to pursue a CTC program in grades 10–12 should complete their required Arts/Humanities credit during grade 9. Courses that meet that requirement are listed on pg. 2 of this Planning Guide.

XX. COURSE SELECTIONS

Course #	Name	Grade	Per Cycle	Credits	Prerequisite(s)
AIR FORCE JUNIOR ROTC PROGRAM (AFJROTC): PATHWAY ALL					
394	AFJROTC	10-11	6	1 cr	
395	AFJROTC/SENIOR	12	6	1 cr	
ART: PATHWAY AC					
367	Intro to Drawing & Painting	10-12	6	1 cr	
368	Introduction to Crafts	10-12	6	1 cr	
369	Advanced Drawing & Painting	11-12	6	1 cr	Introduction to Drawing & Painting or permission from the Instructor
370	Advanced Crafts	11-12	6	1 cr	Introduction to Crafts or permission from the Instructor
371	AP Studio Art	12	6	1cr	Advanced Drawing & Painting, Advanced Crafts, or permission from the Instructor See pg. 3 – AP Criteria; Document page 45
374	AP Art History	11-12	6	1 cr	Advanced Drawing & Painting, Advanced Crafts, or permission from the Instructor See pg. 3 – AP Criteria; Document page 45
376	Multicultural Arts	10-12	6	1 cr	
378	Contemporary 2-D Design	10-12	6	1 cr	
379	Exploring Sculpture: 3-D Design	10-12	6	1 cr	
BUSINESS: PATHWAY BFI					
240	Business Management	10-12	6	1 cr	
243	Basic Accounting	10-12	6	1 cr	
244	Advanced Accounting	10-12	6	1 cr	Basic Accounting
245	Personal Financial Planning	10-12	6	1 cr	
247	Sports & Entertainment Mktg	10-12	6	1 cr	
COMPUTER SCIENCE: PATHWAYS BFI & EI					
252	Programming with Python	10	6	1 cr	
254	AP Computer Science Principles	11	6	1 cr	
256	AP Computer Science A	12	6	1 cr	
258	Computer Game Design & Programming	10-12	6	1 cr	
268	Mobile App Development & Programming	10-12	6	1 cr	
ENGLISH: PATHWAY ALL					
012	English 10 Honors**	10	6	1 cr	See pg. 28, Document page 45
013	English 10 College**	10	6	1 cr	
022	English 11 Honors**	11	6	1 cr	Students must have achieved high scores (at least 2 90% and nothing less than an 80% in their grade 10 English course) and must be recommended by their teachers in order to be scheduled into English 11 Honors.
023	English 11 College**	11	6	1 cr	
030	AP English Lit & Comp**	12	6	1 cr	See pg. 3 – AP Criteria; Document page 45
031	English 12 Honors**	12	6	1 cr	See Document page 45
033	English 12 College**	12	6	1 cr	
041	Writing Elective	10-12	6/sem	1/2 cr	
045	Speech Elective	10-12	6/sem	1/2 cr	
375	Theatre Arts	10-12	6	1cr	

****NCAA approved core course**

Course #	Name	Grade	Per Cycle	Credits	Prerequisite(s)
FAMILY AND CONSUMER SCIENCE: PATHWAYS AC & HS					
300	Parenting/Working With Young Children	11-12	6/sem	1/2 cr	
302	Family Foods	10-12	6	1 cr	
303	Multicultural Foods	11-12	6	1 cr	
307	Creative Living	10-12	6	1 cr	
312	Cook Once, Eat Twice	11-12	6/sem	1/2 cr	
313	Fashion	10-12	6	1 cr	
315	Family & Consumer Science	10	3/sem	1/4 cr	(required 10 th grade course)
INTERNSHIP: PATHWAY ALL					
275	Internship	12	6	1 cr	
MATHEMATICS: PATHWAY ALL					
123	Advanced Algebra 1/Geometry**	10-12	6	1 cr	Not proficient on Algebra 1 Keystone Exam
111	Algebra 2/Geometry Honors**	10-12	6	1 cr	Math teacher recommendation and 1540 or higher on the Algebra 1 Keystone
112	Algebra 2/Geometry College**	10-12	6	1 cr	Math teacher recommendation and proficient on the Algebra 1 Keystone
122	Advanced Algebra 2**	11-12	6	1 cr	
132	Algebra 2/Trigonometry**	11	6	1 cr	Advanced Alg 1/Geometry or not proficient on Algebra 1 Keystone Exam
114	Precalculus Honors**	11-12	6	1 cr	Algebra 2/Geometry Honors
115	Precalculus College**	11-12	6	1 cr	Algebra 2/Geometry College or Algebra 2/Trigonometry
117	AP Calculus AB**	12	6	1 cr	See pg. 3 – AP Criteria; Document page 45
118	Calculus Honors**	12	6	1 cr	Precalculus College or Precalculus Honors (80% or better)
120	Math for the Workplace**	12	6	1 cr	Algebra 2/Geometry or Algebra 2/Trigonometry
125	AP Statistics	11-12	6	1 cr	See pg. 3 – AP Criteria; Document page 45
127	AP Calculus BC	12	6	1 cr	AP Calculus AB; See pg. 3 – AP Criteria; Document page 45
134	Consumer Math	12	6	1 cr	
135	Probability & Statistics**: Statistics Through Application	12	6	1 cr	
136	Probability & Statistics**: Statistical Reasoning in Sports	12	6	1 cr	
MUSIC: PATHWAY AC					
351	Major Music I	10-12	6	1 cr	The ability to read music; music teacher recommendation
352	Major Music II	11-12	6	1 cr	Major Music I (70% or better in each of the four disciplines); music teacher recommendation
353	Major Music III	12	6	1 cr	Major Music II (80% or better); music teacher recommendation
355	Mixed Chorus	10-12	1	1/6 cr	
356	Concert Chorus	10-12	2	1/3 cr	Member of Mixed Chorus & Audition
357	Blue Band	10-12	2	1/3 cr	Performance ability on a band instrument
358	Jazz Band	10-12	1	1/6 cr	Member of Blue Band & Audition
364	Voice Class	10-12	6	1 cr	
365	Digital Music	10-12	6	1 cr	
WELLNESS EDUCATION/DRIVER EDUCATION: PATHWAY HS					
410	Wellness Education	10-12	3	1/2 cr	
450	Driver Education	10	3/sem	1/4 cr	Required 10 th grade course

**NCAA approved core course

Course #	Name	Grade	Per Cycle	Credits	Prerequisite(s)
SCIENCE: PATHWAY SH					
154	AP Biology**	11-12	8	1.33 cr	See pg. 3 – AP Criteria; Document page 45, and pass the Keystone Biology Exam
155	Advanced Biology**	10-12	6	1 cr	Biology College
158	AP Chemistry**	11-12	8	1.33 cr	See pg. 3 – AP Criteria; Document page 45
160	Chemistry Honors**	10	7	1.17 cr	Algebra 1 & Algebra 2 (can be concurrent). Students must have passed the Algebra & Biology Keystone Exam.
161	Chemistry College**	10-12	7	1.17 cr	Algebra 1
167	AP Environmental Science**	12	8	1 cr	Students should have completed 1 year of a physical science, 1 year of a life science and scored proficient on the Algebra & Biology Keystone Exam. Teacher recommendation required.
168	Environmental Science College**	11-12	6	1 cr	Biology
170	General Physical Science	10-12	6	1 cr	
171	Physics College	11-12	6	1 cr	General Physical Science or Chemistry
176	AP Physics 1**	11-12	8	1.33 cr	See pg. 3 – AP Criteria; Document page 45 (Prerequisite Trig, Precalculus, or concurrent)
177	AP Physics 2**	12	8	1.33 cr	See pg. 3 – AP Criteria; Document page 45 (Prerequisite AP Physics 1)
175	Human Anatomy & Phys**	11-12	7	1 cr	Biology College & Chemistry College (80% or better) or approval by instructor
179	Astronomy & Meteorology**	11-12	6	1 cr	
SOCIAL STUDIES: PATHWAY HS					
060	American Cultures Hon**	10	6	1 cr	See pg. 37; Document page 45
061	American Cultures Coll**	10	6	1 cr	
070	World Cultures Hon**	10-11	6	1 cr	
071	World Cultures Coll**	10-11	6	1 cr	
080	AP US Gov't & Politics**	12	6	1 cr	See pg. 3 – AP Criteria; Document page 45
081	Gov't/Economics Honors**	12	6	1 cr	
082	Gov't/Economics College**	12	6	1 cr	
086	AP European History**	10-12	6	1 cr	See pg. 3 – AP Criteria; Document page 45
088	AP World History	10-12	6	1 cr	See pg. 3 – AP Criteria; Document page 45
089	AP Psychology**	10-12	6	1 cr	See pg. 3 – AP Criteria; Document page 45
090	General Psychology**	10-12	6	1 cr	Prerequisite pg. 39
092	Criminal Justice**	10-12	6/sem	1/2 cr	
093	This Generation**	10-12	6/sem	1/2 cr	
095	Introduction to Sociology	10-12	6	1 cr	80% or higher average in previous grade level social studies course and a recommendation from that teacher.

****NCAA approved core course**

Course #	Name	Grade	Per Cycle	Credits	PATHWAY
SPECIAL EDUCATION*					
500	Basic English*	10-12	6	1 cr	ALL
502	English 10*	10	6	1 cr	ALL
503	English 11*	11	6	1 cr	ALL
504	English 12*	12	6	1 cr	ALL
530	Basic Math*	10-12	6	1 cr	ALL
533	Algebra 1/Geometry*	10-11	6	1 cr	ALL
534	Algebra 2/Geometry*	11-12	6	1 cr	ALL
520	Basic Science*	10-12	6	1 cr	SH
522	Biology II*	10	6	1 cr	SH
523	General Physical Science*	11	6	1 cr	SH
524	Environmental Science*	11-12	6	1 cr	SH
509	Basic Social Studies*	10-12	6	1 cr	HS
512	American Cultures II*	10	6	1 cr	HS
513	World Cultures 11*	11	6	1 cr	HS
515	Government & Economics*	12	6	1 cr	HS
548	Reading*	10-12	3	1/2 cr	AC
549	Reading*	10-12	6	1 cr	AC
548	Reading*	10-12	3	1/2 cr	AC
549	Reading*	10-12	6	1 cr	AC
551	Advocacy II*	10-12	6	1 cr	HS
526	Transition II*	10	3	1/2 cr	HS

*Students will be provided with a curriculum that parallels the curriculum in regular education classes. Each course addresses the students' individual goals and is taught with modifications that address instructional pace, format, and presentation techniques.

TECHNOLOGY EDUCATION: PATHWAY EIT					Prerequisite(s)
331	Computer Aided Drafting	10-12	6	1 cr	
332	Architectural Drawing & Design	10-12	6	1 cr	
333	Engineering Design	10-12	6	1 cr	
334	Construction Technology I	11-12	6	1 cr	
341	Digital Media Technology	10-12	6	1 cr	
345	Material & Processes I	10-12	6	1 cr	
346	Material & Processes II	11-12	6	1 cr	Material & Processes I (70% or better)
400	TV & Video Production	11-12	6	1 cr	Digital Media Technology

WORLD LANGUAGES: PATHWAY AC					Prerequisite(s)
211	German I**	10-12	6	1 cr	
212	German II**	10-12	6	1 cr	German I (70% or better)
213	German III**	11-12	6	1 cr	German II (70% or better)
214	German IV**	12	6	1 cr	German III (70% or better)
222	Latin I**	10-12	6	1 cr	
223	Latin II**	10-12	6	1 cr	Latin I
224	Latin III**	10-12	6	1 cr	Latin II (70% or better)
225	Latin IV**	11-12	6	1 cr	Latin III (70% or better)
232	Spanish I**	10-12	6	1 cr	
233	Spanish II**	10-12	6	1 cr	Spanish I (70% or better)
234	Spanish III**	10-12	6	1 cr	Spanish II (70% or better)
235	Spanish IV**	11-12	6	1 cr	Spanish III (70% or better)
236	AP Spanish**	12	6	1 cr.	Spanish III (90% or better, Spanish IV 90% or better along with teacher recommendation) See pg. 3 – AP Criteria

**NCAA approved core course

Course #		Name	Grade	Per Cycle	Credits	Pathway
Senior am/pm	Non-Senior am/pm	CAREER & TECHNOLOGY				
915/610	710/738	Ad Design/Commercial Art	10-12	12-15	2-3 cr	AC
916/612	712/740	Auto Body Repair	10-12	12-15	2-3 cr	EI
917/613	713/741	Automotive Tech	10-12	12-15	2-3 cr	EI
918/614	714/742	Baking/Pastry Arts	10-12	12-15	2-3 cr	SH
919/615	715/743	Bricklaying	10-12	12-15	2-3 cr	EI
920/616	716/744	Building & Property Maint	10-12	12-15	2-3 cr	EI
922/618	718/746	Carpentry	10-12	12-15	2-3 cr	EI
923/619	719/739	Computerized Draft Tech	10-12	12-15	2-3 cr	EI
924/620	720/748	Cosmetology	10-12	12-15	2-3 cr	HS
925/621	721/749	Culinary Arts	10-12	12-15	2-3 cr	SH
926/622	722/750	Diesel Truck Technology	10-12	12-15	2-3 cr	EI
927/623	723/751	Early Childhood Education	10-12	12-15	2-3 cr	HS
928/624	724/752	Electrical Technology	10-12	12-15	2-3 cr	EI
947/690	786/767	Engineering/Automation Tech	10-12	12-15	2-3 cr	EI
946/630	787/794	Health-Dental Occupations	10-12	12-15	2-3 cr	SH
930/686	783/791	Health-Medical Professions	10-12	12-15	2-3 cr	SH
931/687	784/792	Health-Medical Office	10-12	12-15	2-3 cr	SH
932/688	785/793	Health-Nursing Career	10-12	12-15	2-3 cr	SH
933/627	727/755	Horticulture	10-12	12-15	2-3 cr	HS
934/600	700/702	Information Technology Appl	10-12	12-15	2-3 cr	BFI
935/602	704/706	Information Technology Web	10-12	12-15	2-3 cr	BFI
936/628	728/756	3D Manufacturing Technology	10-12	12-15	2-3 cr	EI
937/629	729/757	Motor/Marine/Small Eng	10-12	12-15	2-3 cr	EI
938/631	731/758	Painting & Decorating	10-12	12-15	2-3 cr	AC
939/632	732/759	Plumbing & Heating	10-12	12-15	2-3 cr	EI
940/633	733/760	Printing & Graphic Comm.	10-12	12-15	2-3 cr	AC
941/634	734/761	Public Safety & Security	10-12	12-15	2-3 cr	HS
914/609	709/707	Service Occupations Ed	10-12	12-15	2-3 cr	HS
943/636	736/763	Sewing/Clothing Manuf	10-12	12-15	2-3 cr	EI
945/639	782/766	Welding/Metal Fabrication	10-12	12-15	2-3 cr	EI
	640/641	Am History Honors	10-12	6	1 cr	HS
	642/643	Am History College	10-12	6	1 cr	HS
	644/645	Am History*	10-12	6	1 cr	HS
	649/650	World St - Honors	10-12	6	1 cr	HS
	651/652	World St - College	10-12	6	1 cr	HS
	653/654	World St*	10-12	6	1 cr	HS
	657/658	AP World History	10-12	6	1 cr	HS

**Students will be provided with a curriculum that parallels the curriculum in regular education classes. Each course addresses the students' individual goals and is taught with modifications that address instructional pace, format, and presentation techniques.*

AIR FORCE JUNIOR ROTC PROGRAM (AFJROTC)

The Air Force Reserve Officer Training Corps (AFJROTC) is a program designed to develop citizens of character dedicated to serving their nation and community. Each AFJROTC class consists of three components—aerospace science, leadership education, and a wellness program. Citizenship and character education, the heart of the curriculum program, is primarily embedded in the leadership education series of courses, while sense of service and education in science and technology related aerospace science is primarily found in the aerospace science series of courses. To reinforce what is taught in the classroom, students participate in many outside activities such as field trips to military bases, aerospace facilities and industries, museums, and other areas related to aerospace education. Students are also offered the opportunity to participate in co-curricular activities to include drill and ceremonies, summer leadership school, and honorary academic groups. Community service projects are a major part of the AFJROTC experience and helps to instill a sense of civic pride and citizenship. Students are required to meet Air Force dress and appearance standards and wear the Air Force uniform once a week as well as participate in the wellness portion of the curriculum. Course offerings include Aerospace 100 "A Journey into Aviation History", Aerospace 200 "The Science of Flight", Aerospace 220 "Cultural Studies", Aerospace 300 "Exploring Space", and Aerospace 400 "Management of the Cadet Corps." Courses will be taught on a rotating basis and no cadet will repeat a course. **There is no military obligation for students enrolled in AFJROTC**

394 AFJROTC

Grades 10-11

1 Credit

Courses will be taught on a rotating basis and no cadet will repeat a course. Please refer to the links below for specific course curriculum.

[..\AFJROTC Links\AS 200 The Science of Flight.docx](#)

[..\AFJROTC Links\Leadership Education 300.docx](#)

[..\AFJROTC Links\WELLNESS PROGRAM.docx](#)

[..\AFJROTC Links\Drill and Ceremonies.docx](#)

395 AFJROTC/SENIOR (HONORS WEIGHTED COURSE) Grade 12

1 Credit

[..\AFJROTC Links\AS 400 Management.docx](#)

[..\AFJROTC Links\Leadership Education 400.docx](#)

[..\AFJROTC Links\WELLNESS PROGRAM.docx](#)

[..\AFJROTC Links\Drill and Ceremonies.docx](#)

ART

The art curriculum offers a variety of activities through its various courses. Course work is designed to meet the individual interests, talents and abilities of students. Whether the student is a craftsman, fine artist, or a person who simply enjoys art, there is a program of study to meet his/her interest. Students are encouraged to develop according to their talents and abilities but all students taking art courses will find their creative problem solving skills challenged and their sense of personal identity encouraged.

COURSE RECOMMENDATIONS

Students planning a career in art should consider taking one of the Art Major sequences (Craft or Drawing & Painting) or a combination of the two. Both the Drawing & Painting Major and the Craft Major sequences are designed for students deeply interested in art and who are considering one of the many careers available in the visual arts. Students in the Major course sequences are expected to maintain an art journal/sketchbook and participate in an end of year exit exhibition. Students who enjoy art, but are not planning an art-related career, should consider taking the Art Elective courses. Students can expect sketchbook homework and written assignments in addition to project creations for all elective courses and participation in the annual art exhibit is required.

367 INTRODUCTION TO DRAWING AND PAINTING**Grades 10-12****1 Credit**

Did you ever wish you could draw more realistically? Would you like to learn how to paint in oils? Introduction to Drawing and Painting will focus on developing the young artist's drawing and painting skills as they learn about the Principles of Design and the historical art time periods of the Renaissance to Neoclassical. This content will be the basis for work using a wide variety of media building skills in drawing, painting, color theory, computer technologies and all forms of 2-dimensional design. This is the background experience needed by the serious art student who likes to draw and paint as he/she advances towards the independence of the AP Studio work in their senior year. But the painting hobbyist will enjoy this course as well. Students can expect to keep an art journal/sketchbook and to be assigned written work in support of the curriculum. Participation in the annual art exhibit is required.

368 INTRODUCTION TO CRAFTS**Grades 10-12****1 Credit**

Do you enjoy working with clay? Fibers? Metals? This class is for you! Students will focus upon creating three-dimensional works to better understand the possibilities and limitations of the media of clay, plaster, wood, and metals as well as paper and fibers. We will focus on the developing artist's use of the Principles of Design and, historically, we will study the art of the Renaissance to the Neoclassical time period. Students will be expected to maintain an art journal/sketchbook; written assignments and reflections upon works created will be used to reinforce concepts addressed in class. All students enrolled are required to participate in the annual art exhibit.

369 ADVANCED DRAWING & PAINTING**Grades 11-12****1 Credit**

The focus of this course is geared towards the development of a quality studio portfolio suitable for college admission. However, the hobbyist wanting to advance their drawing and painting skills will enjoy this course as well. Students will be thoroughly examining the art forms of the still life, portrait/figure, landscape and graphic arts while using a wide variety of art media and techniques and an advanced use of the elements and principles of design. Each category will also be examined historically from the Romantic period to the Contemporary art of today. Personal art journal work and written assignments can be expected. Participation in the annual art exhibit is required. *Prerequisites: Learning to Draw & Paint or permission from the Instructor.*

370 ADVANCED CRAFTS**Grades 10-12****1 Credit**

Advanced Crafts is intended for the development of a quality portfolio that will demonstrate mastery of a wide variety of three-dimensional media. Students will look to the work of artists from the Romantic to the present day for inspiration, with a particular focus on contemporary crafts. Students will be expected to maintain an art journal/sketchbook; written assignments and reflections upon works created will be used to reinforce concepts addressed in class. All students enrolled are required to participate in the annual art exhibit.

Prerequisite(s): Introduction to Crafts or permission from the Instructor.

371 AP STUDIO ART**Grade 12****1 Credit**

The focus of this course is the completion of the studio portfolio with the advanced art student developing a personal concentration, or theme, which will result in the production of individual works of art. The work from all previous art classes, in addition to this group of concentration pieces, will become the student's AP Studio Portfolio exam. Outside assignments, written work, and participation in the annual art exhibit are required. **Students may choose to take the AP exam at the student's expense.** *Prerequisite(s): Advanced Drawing & Painting or Advanced Crafts or permission from the Instructor. See page 3 for AP criteria.*

374 AP ART HISTORY**Grades 11-12****1 Credit**

This course is a survey of painting, sculpture, and architecture from the ancient world through the history of art into the 20th century. It is intended for students with a deep interest in the field of the arts, humanities, or history. It requires a high degree of academic commitment, as it parallels the content recommended by the College Board in preparation for the AP Art History exam. Students can expect to improve note-taking and writing skills through class activities as well as an in-depth research project. **Students may choose to take the AP exam at the student's expense.** *Prerequisite(s): Advanced Drawing & Painting, Advanced Craft, or permission from the Instructor. See page 3 for AP criteria.*

376 MULTICULTURAL ARTS**Grades 10-12****1 Credit**

This year-long course will examine the idea of “culture”. We will examine the traditions and values of different cultures and how the artwork from those cultures reflects those ideas. This will lead to comparisons to our own culture, and projects will be a blend of global ideas and a student’s own personal culture. A variety of media will be used, and both 2-D and 3-D art work will be created.

378 CONTEMPORARY 2-D DESIGN**Grades 10-12****1 Credit**

Printmaking, collage, paint, paper crafts and more are featured in this course that will focus on two-dimensional design compositions with modern influences! The course will have a focus on contemporary artists and their modern studio processes. The elements of art will be explored as students learn to draw, paint, and create strong compositions using a wide variety of media. This course is open to any student with an interest in the visual arts.

379 EXPLORING SCULPTURE: 3-D DESIGN**Grades 10-12****1 Credit**

Students will focus upon creating three-dimensional works to better understand the possibilities and limitations of the media of clay, plaster, wood, and metals as well as paper and fibers. Students can expect to improve problem solving skills, and learn more about both the elements and the principles of art as we create a variety of sculptural works. All students enrolled are required to participate in the annual art exhibit.

BUSINESS

The business education program offers many valuable opportunities for the non-business major. For those who plan to major in some field of business in college, a rudimentary background in Accounting and Data Processing would be a valuable asset. For all students, regardless of their career intentions, there are a number of courses, which would prove valuable.

240 BUSINESS MANAGEMENT**Grades 10-12****1 Credit**

Business Management is a seminar course for the academic student planning a career in business, as well as for students planning to enter the business world after high school or continue on in a business/technical school. This multi-faceted course covers various topics; some tailored to individual interests of students. It includes entrepreneurial techniques, oral and written communication, job search and application techniques, and various business management skills. Field experiences and outside speakers are an integral part of the curriculum as well as the use of student projects to simulate the business world.

243 BASIC ACCOUNTING**Grades 10-12****1 Credit**

Basic Accounting is an introduction to the accounting cycle as it pertains to a single proprietorship and partnership for both service and merchandising business. Clerical and analytical skills are developed for recording entries in various journals, keeping ledgers, payroll, preparing worksheets and various financial reports.

244 ADVANCED ACCOUNTING**Grades 10-12****1 Credit**

This is a one-year course that further develops skills from in Basic Accounting. It teaches students how to keep the records of a partnership and corporation. Topics include departmental accounting, payroll, accounting control systems, updating accounts by adjustment, corporate accounting (stocks, bonds, and dividends) and cost accounting. Advanced computerized accounting is an integral part of this course.
Prerequisite(s): Basic Accounting.

245 PERSONAL FINANCIAL PLANNING**Grades 10-12****1 Credit**

Financial planning and self-management skills for the future will be the focus of the course. Areas of study will include planning for educational expenses, personal and household budgeting, taxes, banking, investing, insurance, credit procedures, rights and responsibilities of consumers, and long-range financial planning. Students will be exposed to commercial software applications and internet tools to help enhance their management skills.

247 SPORTS & ENTERTAINMENT MARKETING**Grades 10-12****1 Credit**

The field of sports and entertainment marketing is rapidly growing. This course is designed to apply business and marketing principles to the area of sports, sporting events, and sports products. This will be done by presenting real world business and marketing strategies used in this industry, examining the legal and ethical issues that commonly occur, and how exploring the use of technology has effectively been applied in the sports business/marketing arena.

COMPUTER SCIENCE

252 PROGRAMMING WITH PYTHON

Grade 10

1 Credit

Programming with Python shows how to rapidly develop and maintain effective Python programs. The course includes thorough coverage of Python syntax, built in data types and control constructs. The course takes a practical approach to creating and organizing Python programs using functions, packages, modules and classes as part of Python's object-oriented paradigm. Attendees will use regular expressions to rapidly process data captured from users and from the file system.

254 AP COMPUTER SCIENCE PRINCIPLES

Grade 10-12

1 Credit

AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. *See page 3 for AP criteria.*

256 AP COMPUTER SCIENCE A

Grade 11-12

1 Credit

AP Computer Science A is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. *See page 3 for AP criteria.*

258 COMPUTER GAME DESIGN & PROGRAMMING

Grades 10-12

1 Credit

Computer Game Design & Programming is for anyone who loves gaming and wants to design and build original games from scratch. Students learn how to use popular game-development software to create engaging, interactive games in a variety of styles. This class introduces students to object-oriented game scripting language. Students learn to build a sophisticated computer gaming program, as well as learn about event driven programming, data driven programming and elementary graphics concepts.

268 MOBILE APP DEVELOPMENT & PROGRAMMING Grades 10-12

1 Credit

Mobile App Development & Programming provides students with no programming background with an introduction to mobile application development. Students will use a visual, drag and drop tool to build applications for Android and will be introduced to fundamental programming concepts and skills in the process. The intention of the course is to enable you to design, implement, test, and debug simple mobile applications for the Android operating system.

ENGLISH

The overall goal of our English Department is to promote literacy—specifically the ability to read, write, and think critically. We encourage students to think beyond the obvious and to equip them with the language arts skills necessary to meet the expectations of college professors and employers; this includes the fostering of such technological literacy as information retrieval, research, and communication. Students will also craft their expository and persuasive writing abilities while utilizing the Modern Language Association (MLA) format. While we maintain the intrinsic value of literature through a variety of genres and encourage students to become lifelong readers and writers, we also encourage them to read across the boundaries of time, place, and culture, and to recognize the historical and cultural contexts in which literature is created.

012 ENGLISH 10 HONORS **Grade 10** **1 Credit**
013 ENGLISH 10 COLLEGE **Grade 10** **1 Credit**

Students will read, interpret, analyze, and apply knowledge of the structures, themes, and elements of American fiction and nonfiction. They will develop an understanding of the importance of various periods of literature that characterize and reflect the American experience. Additionally, the course will continue to build upon the conventions and skills of vocabulary, reading, writing, speech, grammar, and research to further prepare our students as Twenty-first century learners. Students will be expected to successfully complete research-based assignments and projects including literary analyses and a formal research paper in MLA format. Students who successfully complete the English 10 Honors course will be offered the option for English 11 Honors in their junior year. Honors Note: A summer reading list and/or assignments will be required as preparation for this course; therefore, each student who enrolls in the Honors course must complete the Summer Assignments Policy found on page 52 in this booklet, get it signed, and turn it in to their respective teachers along with his/her course selection sheet. Honors Prerequisite(s): Students must have achieved high scores (at least 2 90% and nothing less than an 80% in their grade 9 English course) and must be recommended by their teachers in order to be scheduled into English 10 Honors.

022 ENGLISH 11 HONORS **Grade 11** **1 Credit**
023 ENGLISH 11 COLLEGE **Grade 11** **1 Credit**

World Literature investigates the question of what makes us human. The course focuses on how literature reveals to readers that even the most different of cultures have things in common. Because individual view point shapes human understanding and action, students question the truth behind perception and examine the role it plays in either reinforcing or undermining the truth. Students will also explore fiction and non-fiction text from cultures and time periods across the globe. Additionally, the students in this course will continue to build upon the conventions and skills of vocabulary, reading, writing, speech, grammar, and research. **Note:** A summer reading list and/or assignments will be required as preparation for the Honors course; therefore, each student who enrolls in this course must complete the Summer Assignments Policy found on page 52 in this booklet, get it signed, and turn it in to their respective teacher along with his/her course selection sheet. Honors Prerequisite(s): Students must have achieved high scores (at least 2 90% and nothing less than an 80% in their grade 10 English course) and must be recommended by their teachers in order to be scheduled into English 11 Honors.

030 AP ENGLISH LIT & COMP **Grade 12** **1 Credit**

This specialized English course is targeted for the senior honors student planning to take the Advanced Placement test in Literature and Composition. It demands a strong, confident command of standard written English and proficiency with expository writing. The student will be required to read, analyze, explicate, and respond to many pieces from the various literary genres. Students may choose to take the AP exam at the student's expense. **Note:** A summer reading list and/or assignments will be required as preparation for this course; therefore, each student who enrolls in this course must complete the Summer Assignments Policy found on page 52 in this booklet, get it signed, and turn it in to their respective teacher along with his/her course selection sheet. See page 3 for AP criteria.

031 ENGLISH 12 HONORS **Grade 12** **1 Credit**

This course is for the senior honors English student. Focusing on the study of British literature, students will develop higher-order thinking skills through application and analysis as they encounter a variety of literary genres, periods, and themes. Mastery of written and oral communication skills is practiced daily. A formal research paper in MLA format is a course requirement. Additionally, the students in this course will continue to build upon the conventions and skills of vocabulary, reading, writing, speech, grammar, and research. **Note:** A summer reading list and/or assignments will be required as preparation for this course; therefore, each student who enrolls in this course must complete the Summer Assignments Policy found on page 52 in this booklet, get it signed, and turn it in to their respective teacher along with his/her course selection sheet. All students enrolling in this course should be recommended by their grade 11 English teachers. Students must have achieved high scores (at least 2 90% and nothing less than an 80% in their grade 11 English course) and must be recommended by their teachers in order to be scheduled into English 12 Honors.

033 ENGLISH 12 COLLEGE**Grade 12****1 Credit**

This course is required for all high school seniors not enrolled in 12 Honors or AP English. This class is a concentration on British literature, as students develop higher-order thinking skills through application and analysis of fiction and non-fiction text. Students will encounter a variety of literary genres, periods, and themes ranging from the epic heroism of Beowulf to the modern satire and allegories of World War II which echo relevant issues in our society today. A formal research paper in MLA format is a course requirement as we prepare students for post-secondary education and life after high school graduation. Additionally, the students in this course will continue to build upon the conventions and skills of vocabulary, reading, writing, speech, grammar, and research.

ENGLISH ELECTIVES**041 WRITING ELECTIVE****Grades 10-12****1/2 Credit**

This half-year course is designed for the student interested in creative writing as well as improving their academic writing skills to become a well-rounded writer. The course focuses on the creation of short fiction, but also gives the young writer an opportunity to explore other genres such as poetry and the memoir. This course will focus on introducing skills to propel the writer into the 21st century. Project proposals and technical writing will also be explored throughout the semester. Students will have an opportunity to supplement their regular ELA instruction with essays/compositions in the expository and persuasive modes of writing.

045 SPEECH ELECTIVE**Grades 10-12****1/2 Credit**

This half-year course is designed for the student who desires to improve his/her communication skills for the 21st century. The goal of this course is to make the speaker more comfortable when presenting to peers or teachers. Physiological effects of speech anxiety are discussed as well as techniques to minimize speech anxiety. Speech projects range from the impromptu speech to longer presentations with visual-aid components in various modes of speaking. The student will also participate in Socratic Seminars on diverse, current-event based topics.

375 THEATRE ARTS**Grades 10-12****1 Credit**

This dynamic course explores all aspects of working on the stage! Students participate in theater/acting exercises working with voice, movement, flexibility, listening, focus, and quick thinking as they move on to developing improvisational skills. Play productions suitable for the classroom will be practiced and performed. After play/movie analysis work, students will write an original story overview which will then be transferred to an original script. Students then become the directors, actors, set designers, and costume creators for their theatrical productions. *Students must be willing to act in front of the class, work with others, and should enjoy creative writing.*

FAMILY AND CONSUMER SCIENCES

The curriculum of the Family and Consumer Sciences Department, designed to help students meet the challenges of life, includes the study of food, nutrition, interior design, housing, sewing, consumerism, child development, parenting, and independent living. Consumerism, foods, and sewing lab work provide the students with the tools necessary to develop skills for daily living. Nutrition, fitness, and personal development contribute to positive self-concepts as students explore individual priorities and goals; learn more about themselves, others, and their environment; and recognize the importance of their role within the family unit. Communication, problem solving, and decision-making are integral components within the curriculum, since these life management skills are essential to self-actualization, regardless of life or career directions.

**300 PARENTING/
WORKING WITH YOUNG CHILDREN****Grades 11-12****1/2 Credit**

This semester course offers students the opportunity to explore the facts, issues, and development involved in being a parent or childcare provider. The student will gain a better understanding of children as individuals and their behavior as it relates to their environment. Topics will include adult responsibilities, attitudes towards children, pregnancy, financial costs, nutritional needs, caring for a newborn, and the developmental stages of children through age five. Students will observe and analyze adult-child interactions through preschool observation, videotape viewing and discussion. This course will help students to prepare for jobs such as day care instructor, nursery school aide, preschool educator, and early childhood/elementary educator. *Note: A nominal fee may be charged for supplies used on projects in the class.*

302 FAMILY FOODS**Grades 10-12****1 Credit**

The aim of this course is to provide the students with a basic knowledge of food and the many facets of consumerism. Principles of food preparation are thoroughly covered as they relate to the amount of time and skill needed to prepare meals. Opportunity is provided for students to exercise self-reliance in food purchasing, food preparation, and serving of the meal. *Note: A nominal fee may be charged for supplies used on projects in the class.*

303 MULTICULTURAL FOODS**Grades 11-12****1 Credit**

This course acquaints the student with international and regional foods in order to develop an appreciation of mealtime customs and home life of other nations and cultural groups. Emphasis is placed on providing the student with an opportunity to experiment, create, and analyze new food flavors, combinations, and methods of food preparation of selected cuisines. *Note: A nominal fee may be charged for supplies used on projects in the class.*

307 CREATIVE LIVING**Grades 10-12****1 Credit**

This course allows students to express themselves through interior design and baking. Students will learn the basics of interior design while developing their eye for design. They will also learn various baking skills including preparation of various types of breads, cakes, cookies, and pies. Students are responsible for some project materials. *Note: A nominal fee may be charged for supplies used on projects in the class.*

312 COOK ONCE, EAT TWICE**Grade 11-12****1/2 Credit**

This course focuses on kitchen economics. Food can be even more delicious the second time around. "Cook Once, Eat Twice" is a timesaving, economical approach to "no waste" home cooking that includes make-ahead strategies yielding at least two meals from one preparation. A section on Fusion Cooking explores the art of combining classic ingredients and cooking techniques from different cuisines to transform leftovers into innovative new meals.

313 FASHION Grades 10-12 1 Credit

This course will explore the different facets of fashion from its history, to why we wear what we do, to styles, designers, and the industry. It will look at the elements of design as they relate to fashion and the role of color in fashion. Fibers and fabrics along with clothing care will also be explored. Consumerism as it relates to clothing purchases will be covered. Students will explore careers in the fashion industry. The students will review basic sewing information before beginning construction of a garment. **Students are responsible for purchasing supplies used to make their sewing projects.**

315 FAMILY & CONSUMER SCIENCE**Grade 10****1/4 Credit**

Family & Consumer Science is a required fast-paced, comprehensive course designed to acquaint students with a common sense approach to skills and modern challenges in wellness, nutrition and foods, human development, family and child development, interpersonal relationships, housing and living environments, as well as financial and consumer resource management. Future Career and Community Leaders of America (FCCLA) activities are part of this course. These skills will assist students in managing, with good judgment and creativity, the many challenges across the life span that are related to the family unit in a global society.

MATHEMATICS

The Mathematics Department has designed its courses to meet the needs of our students according to their individual preferences. In the academic area, we feel our graduates are prepared to pursue mathematics or any mathematics-related area beyond high school. In the trades and/or consumer area, our courses give our students a firm background to handle the mathematics of the high-tech workforce and everyday living.

111 ALGEBRA 2/GEOMETRY HONORS	Grades 10-12	1 Credit
112 ALGEBRA 2 GEOMETRY COLLEGE	Grades 10-12	1 Credit

The principles of this course design—problem-based lessons, collaborative student work, and spiraled practice—are based on the methodological research for teaching mathematics that leads to conceptual understanding. Through this course students will gain mastery in working with and evaluating mathematical expressions, equations, and graphs. Students will also become adept at making and testing conjectures about geometric relationships and using theorems and properties to justify their reasoning. Topics include: real numbers, equations, functions, linear equations and inequalities, solving systems of linear equations and inequalities, polynomials and factoring, quadratic equations, and rational expressions, congruent and similar polygons, and probability and statistics. Additionally, students will be encouraged to develop positive behaviors in the area of classroom preparation and task completion. *Students must be proficient on the Algebra 1 Keystone exam. Students taking the Honors section must come from Algebra 1 Honors and score a 1540 or higher on their Algebra 1 Keystone exam.*

132 ALGEBRA 2 /TRIGONOMETRY	Grade 11	1 Credit
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This course is designed for students in their junior year that have successfully completed the Advanced Algebra 1/Geometry course in their tenth grade year. Similar to the Advanced Algebra 1/Geometry course, the principles of this course design—problem-based lessons, collaborative student work, and spiraled practice—are based on research for teaching mathematics that leads to conceptual understanding. The course will be comprised of three components: Algebra 2 concepts (polynomials and factoring, quadratic equations, and rational expressions), SAT Math eligible content, and Trigonometry. Algebra 1 content will be reviewed throughout the year to support students that have not shown mastery on the Algebra 1 Keystone Exam. The foundations from this course will allow a student to explore higher mathematics in their senior year.

114 PRECALCULUS HONORS	Grades 11-12	1 Credit
115 PRECALCULUS COLLEGE	Grades 11-12	1 Credit

This course gives students an understanding of the trigonometric functions, as well as polynomial, rational, exponential, logarithmic functions, and functions involving radicals and offers a foundation for theory of calculus to prepare students for college level study. Students in 115 Precalculus Honors may choose to apply for Dual Enrollment at their own expense. *Pre Prerequisite(s): Algebra 2 College and Geometry.*

117 AP CALCULUS AB	Grade 11-12	1 Credit
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This one-year course follows a rigorous schedule that prepares students for taking the AP Calculus AB exam. AP Calculus AB introduces the Theory of Limits and the differentiation and integration processes and their applications. Calculus is taught through a graphical, analytical, and a numerical approach. Students may choose to take the AP exam or apply for Dual-Enrollment at the student's expense. If a student chooses to take the AP exam they will be exempt from taking a course final. If a student dual enrolls with RACC, they are required by RACC's guidelines to take a final to determine their overall course grade. **If a student does not take the AP exam or is not dual-enrolled they will receive the same credit weight for the course as Calculus Honors.** *Prerequisite(s): See page 3 for AP and Dual Enrollment criteria.*

118 CALCULUS HONORS	Grade 11-12	1 Credit
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This one-year course introduces the Theory of Limits and the differentiation and integration processes and their applications. The course includes a review of analytic geometry but is not taught as an Advanced Placement course. Calculus is taught through a graphical, analytical, and a numerical approach. Students may choose to apply for Dual-Enrollment at their own expense. *Prerequisite(s): Students must earn an 80% or better in Precalculus Honors or Precalculus College.*

120 MATH FOR THE WORKPLACE	Grade 12	1 Credit
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This course is designed for students planning to attend a two-year (technical) school or enter the workplace after graduation. Included will be advanced topics in Measurement, Geometry, right triangle trigonometry, and an introduction to quality assurance and process control and statistics.

122 ADVANCED ALGEBRA 2	Grades 11-12	1 Credit
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This course features coherent, connected units that advance student understanding and skills in algebra and functions, geometry and trigonometry, statistics and probability, financial and discrete mathematics. The goal is to build on a theme of mathematics as sense-making. Through problem-based investigations featuring realistic contexts, students develop a rich and connected understanding of important mathematics that makes sense to them. Students may choose to apply for Dual Enrollment at their own expense.

123 ADVANCED ALGEBRA 1/GEOMETRY **Grades 10-12** **1 Credit**

Advanced Algebra 1/Geometry is the required course of all students not showing mastery on the Algebra 1 Keystone exam. The principles of this course design—problem-based lessons, collaborative student work, and spiraled practice—are based on the methodological research for teaching mathematics that leads to conceptual understanding. Through this course students will gain mastery in working with and evaluating mathematical expressions, equations, and graphs. Students will also become adept at making and testing conjectures about geometric relationships and using theorems and properties to justify their reasoning. Topics include: real numbers, equations, functions, linear equations and inequalities, solving systems of linear equations and inequalities, congruent and similar polygons, and probability and statistics. Additionally, students will be encouraged to develop positive behaviors in the area of classroom preparation and task completion. Students that successfully complete Advanced Algebra 1/Geometry in their 10th grade year will take Algebra 2/Trigonometry during their 11th grade year.

125 AP STATISTICS **Grades 11-12** **1 Credit**

This course is structured around the AP Statistics curriculum. Students taking this course may be able to receive college credits if they earn a 3 or better on the AP exam at the end of the year. The students will gain an understanding of how to use statistical methods to interpret real-life data. The students will use graphing calculators as well as computer software. The main topics of the course include organizing data, probability, designing samples and experiments, hypothesis testing, and analyzing data. **Students may choose to take the AP exam or apply for Dual-Enrollment at the student's expense.** Prerequisite(s): See page 3 for AP and Dual Enrollment criteria. Note: A summer reading list and/or assignments will be required as preparation for the Honors course; therefore, each student who enrolls in this course must complete the Summer Assignments Policy found on page 52 in this booklet, get it signed, and turn it in to their respective teachers.

127 AP CALCULUS BC **Grade 12** **1 Credit**

This course will continue from where AP Calculus 1(AB) left off and prepares the student for taking the AP Calculus BC exam. After a brief review period, students will begin working on the following 3 units, which complete the AP Calculus BC curriculum: Techniques of Integration (topics not covered in AP Calc. 1), Parametric Equations and Polar Curves, and Sequences and Series. Once students complete the AP Calculus BC curriculum we will move in to material typically covered in a College level Calculus 3 course. Students may choose to take the AP exam or apply for Dual-Enrollment at the student's expense. If a student chooses to take the AP exam they will be exempt from taking a course final. If a student dual enrolls with RACC, they are required by RACC's guidelines to a final to determine their overall course grade. **If a student does not take the AP exam or is not dual enrolled, they will receive the same credit weight as an Honors course.** Course will be offered pending board approval.

134 CONSUMER MATH **Grade 12** **1 Credit**

This course is designed for the student to feel at ease in using mathematics to make important decisions. The focus will be on adding, subtracting, multiplication and division, percent, using significant digits, and representing and interpreting data. Topics included: Taxes, Inflation and Depreciation, Borrowing and Saving Money, Mathematics of Consumption, and the Mathematics of Healthy Living. Prerequisite(s): none Note: This course will be offered pending school board approval.

STUDENTS SIGNING UP FOR PROBABILITY & STATISTICS MUST CHOOSE ONE OF THE TWO OPTIONS.

**135 PROBABILITY & STATISTICS:
STATISTICS THROUGH APPLICATION** **Grade 12** **1 Credit**

This course is designed to focus on statistical ideas and reasoning, and their relevance to such fields as medicine, education, environmental science, business, psychology, sports, politics, and entertainment. Students will formulate questions that can be addressed with data, and collect, organize, and display relevant data to answer them, select appropriate statistical methods to analyze data, develop and evaluate inferences and predictions based on data, and understand and apply basic concepts of probability through the use of real world examples. Activities give students opportunities to investigate, discuss, and make use of statistical ideas and methods. Prerequisite(s): Algebra 2/Geometry or Algebra/Trigonometry

136 PROBABILITY & STATISTICS:**Grade 12****1 Credit****STATISTICAL REASONING IN SPORTS**

The purpose of Statistical Reasoning in Sports is to teach students the principles of statistical reasoning in an accessible and enjoyable way that helps prepare them for life in the 21st century. In a data-saturated world, citizens must be able to ask thoughtful questions, properly analyze data, and, most importantly, use critical thinking skills to draw appropriate conclusions and recognize inappropriate conclusions made by others. The aim is to introduce the principles of statistical reasoning using a non-standard and student-friendly approach that emphasizes the entire statistical process, all in a motivating sports context. *Prerequisite(s): Algebra 2/Geometry or Algebra/Trigonometry*

MUSIC

The Music Department offers a program of studies for the student who plans to enter a music or music-related field as well as the student who wants to gain an understanding of the fine art of music. The department also provides the opportunity for each student to attain instrumental and vocal performing competence through a variety of performing organizations.

351 MAJOR MUSIC I**Grades 10-12****1 Credit**

This is a major course, which encompasses three disciplines of music: 1) music theory (harmony & analysis), 2) sight singing, and 3) dictation (interval recognition and hearing & writing melodies). This course is designed for students deeply interested in music, students who are planning a career in a music-related field, or students interested in the field of elementary education. *Prerequisites: The ability to read music; music teacher recommendation.*

352 MAJOR MUSIC II**Grades 11-12****1 Credit**

This is a continuation of the Major Music I class. *Prerequisite: Major Music I (70% or better in each of the three disciplines); music teacher recommendation.*

353 MAJOR MUSIC III**Grades 12****1 Credit**

This is a continuation of studies from Major Music II. Topics include sight singing (including dominant seventh intervals), ear training (harmonic dictation), theory (four part writing & orchestration), and history (Romantic & Impressionist eras). *Prerequisite(s): 80% or better in Major Music II or teacher recommendation.*

355 MIXED CHORUS**Grades 10-12****1/6 Credit**

This is a non-select chorus which rehearses once a cycle during school hours and requires a sectional rehearsal during three separate cycles as well as some out-of-school rehearsal time. This chorus prepares and performs a variety of four-to-six part music with emphasis on elementary and intermediate music reading and vocal production. The Mixed Chorus annually performs at three school concerts. Students are required to purchase appropriate concert and performance attire as needed.

356 CONCERT CHORUS**Grades 10-12****1/3 Credit**

This is a select chorus which rehearses twice a cycle during school hours and requires one sectional rehearsal during four separate cycles as well as significant evening rehearsal time. This chorus prepares and performs a variety of four to eight part music with emphasis on intermediate and advanced music reading and vocal production. Concert Chorus performs five to seven times per year and participates in Music Department trips that are planned every other year. Students are required to purchase appropriate concert and performance attire as needed. *Prerequisite(s): Membership in Mixed Chorus; audition required.*

357 BLUE BAND**Grades 10-12****1/3 Credit**

This is a non-select band which rehearses twice a cycle during school hours. The band prepares and performs a variety of marching and concert band music and provides music at football games, parades and various concert events. Students are required to attend a 1 week band camp (first full week in August) and Wednesday evening rehearsals during the football season. Five sectionals or a playing exam are required from students quarterly. Students are also required to purchase appropriate concert and performance attire as needed. All students will play a short audition yearly for chair placement. Please contact the band director for additional information. *Prerequisite(s): Performance ability on a band instrument.*

358 JAZZ BAND**Grades 10-12****1/6 Credit**

These are select jazz ensembles that rehearse both on and off school time. The groups play a wide variety of jazz styles and concentrate on developing improvisational skills. Both bands perform at concerts, jazz festivals, and other community functions throughout the spring of the year. Students are required to purchase appropriate attire for performances. *Prerequisite(s): Membership in "Blue Band"; audition.*

364 VOICE CLASS**Grades 10-12****1 Credit**

This class is aimed at students who want to learn the proper techniques for solo vocal singing. This is ideal for students who have not yet taken private voice lesson. Students will be required to perform in at least two recitals, which will be after school hours.

365 DIGITAL MUSIC**Grades 10-12****1 Credit**

Students will create, arrange, and produce original music composition using digital technology. This class is for music readers and non-music readers alike. Some projects include designing sound loops, original song composition, lyric creation, and creating soundtracks. This class is a great opportunity for creative exploration as well as learning some basic tools necessary in career fields such as sound engineering, pop music performance & production, and composing. Whether or not you intend to pursue a career in music, you will have many chances to develop as a creative artist.

386 STEEL DRUMS I**Grades 10-12****1 Credit**

Steel Drums I is a performance based course that will teach students to play and perform on the steel drums, develop initial music reading skills and learn the background and development of the steel drum culture. The goal of this course is to expose students to this multi-cultural art and prepare students for a public performance.

WELLNESS EDUCATION/DRIVER EDUCATION**410 WELLNESS EDUCATION****Grades 10-12****1/2 Credit**

Wellness Education is a mandatory selective physical education program. Students will select quarterly to include Personal Fitness, Strength and Conditioning or Physical Education. One selection must be completed each quarter. Health topics such as nutrition, wellness, substance abuse, addiction, first aid, CPR, decision-making and goal-setting, mental health and suicide education units will be offered. Health will be taught inclusively within the Wellness Class.

PHYSICAL EDUCATION

	Team Sports Activities		Individual Sports Activities
Soccer	Track & Field	Volleyball	Aerobic Exercise
Flag Football	Floor Hockey	Softball	Tennis
Speedball	Modified Lacrosse	Recreational Games	
Basketball	Ultimate Frisbee	Handball	
Volleyball	Recreational Games		
Softball	Handball		

PERSONAL FITNESS**Grades 10-12**

The Personal Fitness program is designed so that students will: 1. develop knowledge of, and demonstrate individual development in, physical fitness emphasizing aerobic or cardio respiratory fitness, to promote lifelong physical activity; 2. assess health-related fitness in relation to the following components: cardio respiratory, flexibility, muscular strength, muscular endurance, and body composition; 3. achieve health-related fitness through involvement in an individually designed physical fitness program; 4. maintain personal fitness through regular participation in physical activity.

STRENGTH & CONDITIONING

Grades 10-12

The weight-training program is designed for the student who is interested in improving his/her physical condition. Strength will be enhanced by a program centered around endurance, strength, flexibility, and an understanding of fitness development. Students will keep a record of quarterly attainment, which will provide an over-all picture of improvement in their level of weight training fitness.

450 DRIVER EDUCATION

Grade 10

1/4 Credit

This required course emphasizes helping young people save lives. Much material in this course is selected because of its relation to the life or death aspect of driving. Behind-the-wheel instruction is given to those students who desire to take advantage of it. Students who will be 16 years old prior the end of the first semester of 10th grade should schedule the fall semester course. For the behind-the-wheel phase, students must be 16 years of age and possess a valid learner's permit or driver's license. Students may arrange for behind-the-wheel training with the instructor. This behind-the-wheel training is scheduled during the student's study halls.

SCIENCE

The science program is designed to provide each student with the opportunity to take the fundamental courses in each area of science. In addition, the science program provides electives in the biological, chemical and physical sciences for those students who are interested in a scientific career. The science program is mostly lab-oriented with emphasis on discovery as a means of learning. Students enrolling in lab sciences often need to miss one day per cycle of an elective course in order for that lab science to be scheduled. Students are responsible for work that is missed in such situations.

154 AP BIOLOGY

Grades 11-12

1.33 Credit Life Science

The AP Biology course is designed to be the equivalent of a two-semester college introductory course usually taken by biology majors during their first year. The content is organized around four Big Ideas; Evolution, Biochemistry, Genetics, and Organismal Biology. It incorporates seven science practices meant to develop advanced inquiry and reasoning skills such as, designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. **Students can anticipate 5-8 hours of homework a week. The course is designed to foster laboratory skills, critical thinking skills, and study skills to help the college bound student. Students may choose to take the AP exam at the student's expense.** *Prerequisites: Proficient or Advanced on the Biology Keystone. 80% or better in Chemistry. Students will be required to complete assignments the summer before they take this course. See page 3 for AP criteria.*

155 ADVANCED BIOLOGY

Grades 10-12

1 Credit Life Science

The course content includes subject matter beyond the scope of general biology. This course includes an in-depth look at comparative vertebrate anatomy and physiology, indicating evidence of possible pathways of evolution. Accompanying dissections may include the frog or mudpuppy salamander, fetal pig, shark, turtle, and snake. Other general areas studied include (but are not limited to) a taxonomic overview of the five and six kingdom systems, the biochemistry of cells, genetics and botany. Throughout the course, various current environmental issues and medical/bioethical issues will be presented. **Advanced Biology is fully aligned with the Keystone Biology Anchors and will provide students with further instruction and preparation for the Keystone Biology Exam.** Students who have passed AP Biology may not schedule this course. *Prerequisite(s): Biology College*

156 CONCEPTS OF LIFE

Grades 11

1 Credit Life Science

This course is designed for 11th grade students who have not passed the Keystone exams. The key concepts of life will focus on the different kingdoms, the major bodily systems that comprise life and the role that disease plays within the scope of life on this planet. Concepts of life is a life science based course and students will be required to perform lab activities. Within the context of this content Keystone remediation skills will be embedded. Concepts of Life is a science elective. *Prerequisite(s): Biology and Advanced Biology. Pending Board approval.*

158 AP CHEMISTRY

Grades 11-12

1.33 Credits Physical Science

Many colleges and universities grant admission with advanced standing in chemistry to students who have passed the Advanced Placement Chemistry test. In addition to covering topics in inorganic chemistry that were not covered in the basic chemistry course, this course prepares students for the Advanced Placement Chemistry Test. Students who are enrolled in AP Chemistry will meet for eight periods in a six day cycle. **Students may choose to take the AP exam at the student's expense.** *Prerequisite(s): Chemistry College/Honors and Algebra 2 College. Students may be required to complete "review" assignments the summer before they take this course. See page 3 for AP criteria.*

177 AP PHYSICS 2**Grade 12****1.33 Credits Physical Science**

AP Physics 2: The AP Physics 2 course is designed to be the equivalent of a semester college introductory course usually taken by any science major. The course is algebra-based and requires a calculator. This course meets eight periods in a six day cycle. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics. **Students may choose to take the AP exam at the student's expense.** *Prerequisite(s): Either AP Physics 1 or Physics. Students may be required to complete "review" assignments the summer before they take this course. See page 3 for AP criteria.*

175 HUMAN ANATOMY & PHYSIOLOGY**Grades 11-12****1 Credit Life Science**

This course is designed for students who wish to pursue a profession in the medical field, and is taught at a level students would experience in the post-secondary medical setting. This class includes the subject areas of biology, mathematics, physics, and health sciences. This course explores components of physiology, anatomy, and kinesiology - areas that comprise the human body as a whole. Students will explore the gross and surface anatomy of nearly all of the human body systems and determine how those structures carry out specific functions. **Note:** *Field trips are an important aspect of this course and may involve a nominal cost.* **Prerequisites:** *Students must have scored proficient on the Biology Keystone Exam. In addition, students must have completed at least 1 year of life science (AP Biology, AP Environmental Science, Biology College, or Advanced Biology) and at least 1 year of a Chemistry course with a year-end minimum of 80% in both subject areas.*

179 ASTRONOMY & METEOROLOGY**Grades 11-12****1 Credit Earth & Space Science**

This course is a general overview of the understanding of the universe, earth, and earth's weather. The course has been designed so that the instruction will appeal to students of all ability levels within the sciences. The study includes: constellation and bright star identification; motions of celestial objects – including the earth and moon, and comparison of solar system components. Additionally, students will study the earth's crust, rocks, minerals, fossils, weathering and erosion, topographic maps, and Plate Tectonics. Students will also study the earth's weather, the atmosphere, air masses, global wind systems, precipitation, storms, and forecasting. This course is available to 11th and 12th grade students only.

SOCIAL STUDIES

A day doesn't pass in our lives when we are not involved with some aspect of the social studies. Our use of money; our relations with family, friends, and associates; and our rules and regulations all borrow from the broad field known as social studies. By understanding the total system in which we live, the societies in which others live, and the history of man, which brought all of us to this point in time, we should be better able to live more effectively in our society. All students must have: US History, World Cultures/World History and Econ/Gov.

060 AMERICAN CULTURES II HONORS**Grade 10****1 Credit****061 AMERICAN CULTURES II COLLEGE****Grade 10****1 Credit**

The American Cultures course is a continuation of the American Cultures I program. It begins with industrialization in the late nineteenth century and moves to the present. Emphasis will be placed on America's role in world events and on the cultural developments in the United States. Some topics include: Urbanization, and Industrialization, the Gilded Age, Imperialism, Progressivism, World War I, the Roaring Twenties, the Depression, World War II, the Cold War including the Korean Conflict and the Vietnam War, the Civil Rights Movement, and contemporary issues that impact the United States today. Using a cultural approach, students will learn to deal with American problems as they affect our daily lives.

Note: *Honors level students will require a summer reading list and/or assignments will be required as preparation for this course; therefore, each student who enrolls in this course must complete the Summer Assignments Policy found on page 52 in this booklet, get it signed, and turn it in to their respective teacher along with his/her course selection sheet. Prerequisite(s): Students must have achieved high scores (at least 2 90% and nothing less than an 80% in their grade 9 Social Studies course) and must be recommended by their teachers in order to be scheduled into American Cultures II Honors.*

089 AP PSYCHOLOGY**Grades 10-12****1 Credit**

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. This is an intensive course of study that integrates frequent supplemental reading assignments into curriculum that has been devised by the College Board. Summer reading and writing assignments will be required of students enrolling in this course. This class may qualify as a core course or as an elective. *Prerequisite(s): Students must have a recommendation from a current social studies teacher. Students may choose to take the AP exam at the student's expense. See page 3 for AP criteria.*

SOCIAL STUDIES ELECTIVES**090 GENERAL PSYCHOLOGY****Grades 10-12****1 Credit**

The General Psychology elective is a full year elective designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Among all sciences, psychology is unique in the degree to which it speaks to daily living and applies to everyday problems and concerns. Topics of study include: history of psychology; research methods; neuroscience; states of consciousness; developmental psychology; personality theory; psychological disorders and treatments; and social psychology. This course is an academic approach to the study of psychology and is a study-centered course that requires a higher level of reading comprehension. The course will best serve students who are pursuing careers requiring post-secondary education. Requirements for this course include keeping a personal journal/lab notebook, participation in experiments, individual and group projects, writing assignments and unit exams. *Prerequisite(s): Students must have a recommendation from a current social studies teacher.*

092 CRIMINAL JUSTICE**Grades 10-12****1/2 Credit**

This course will present concepts related to man and his role in our society, based on law. Prepared in a manner *which is useful to the layman, the course will deal with those areas of law which affect our daily lives.* Topics covered will include juvenile justice and criminal, civil, and family law. Resource persons will communicate law-related career opportunities.

093 THIS GENERATION**Grades 10-12****1/2 Credit**

Many events have happened in our society since the 1970's. Changes in entertainment, the family, the world of work, international relations, education, our system of values, and how we see the world around us have had a tremendous impact on our country as a whole. Students will examine those events and discuss what effect they might have on our future.

095 INTRODUCTION TO SOCIOLOGY**Grades 10-12****1 Credit**

The Introduction to Sociology course is designed to introduce students to the sociological study of society. Sociology focuses on the systematic understanding of social interaction, social organization, social intuitions, and social change. Major themes in sociological thinking include the interplay between the individual and society, how society is both stable and changing, the causes and consequences of social inequality, and the social construction of human life. Understanding sociology helps discover and explain social patterns and see how such patterns change over time and in different settings. By making vivid the social basis of everyday life, sociology also develops critical thinking by revealing the social structures and processes that shape diverse forms of human life. This course is academically structured to mirror a college course. Students are expected to complete independent work, collaborate in the classroom and investigate research topics related to sociology. It is suitable for students who may wish to pursue a career in criminal justice, social work, psychology or any other social service.

TECHNOLOGY EDUCATION

The Technology Education program is an integral part of general education, providing all students with the opportunity to combine tool and material manipulation, critical thinking, and problem solving. The program is designed to provide a broad content base and extended opportunity for experiences with tools and materials. The concept of "learning by doing" is utilized whenever possible. Note: Students who register for a materials course after the beginning of the school year must have teacher approval.

331 COMPUTER AIDED DRAFTING **Grades 10-12** **1 Credit**
This course has been developed to enhance student skills learned in scaling, proportion, technical lettering, multi-view drawings, dimensioning, and auxiliary views in relation to mechanical drawing. AutoCAD software will be utilized to transfer pencil and paper drawings to the computer. Students will explore areas that include software commands, two and three dimensional geometry, and plotting. This course is highly recommended for college prep students considering a field in architecture/engineering.

332 ARCHITECTURAL DRAWING & DESIGN **Grades 10-12** **1 Credit**
This course is designed to provide students with the opportunity to explore the many components in the field of architecture and design. AutoCAD software and the addition of a 3D modeling machine will take the students' drawing experience to the next level.

333 ENGINEERING DESIGN **Grades 10-12** **1 Credit**
This course has been developed to enhance the student's skills in designing, prototyping, and testing. Emphasis will be placed on the research and development of superstructures that shape our world. A problem solving unit will conclude the engineering experience. *Prerequisite(s): Computer Aided Drafting or Architectural Drawing and Design.*

334 CONSTRUCTION TECHNOLOGY I **Grades 11-12** **1 Credit**
This course is designed to provide basic instruction for the student interested in construction trades and will enable do-it-yourself persons to handle many construction jobs that they would otherwise be reluctant to undertake. This course provides the math, problem solving and hands-on skills necessary in all aspects of light frame construction; including site layout, foundations, framing, sheathing, roofing, windows, doors and , exterior finish. Technological change and developments in the construction industry have modified the tools, machines and materials being used, therefore careful attention will be given to new developments in the building industry as well. Class activities will include: working in the classroom and on a construction site, employing learned skills to construct a structure. **Pending Board approval.**

341 DIGITAL MEDIA TECHNOLOGY **Grades 10-12** **1 Credit**
This course provides students with the opportunity to achieve technical and conceptual exposure in photography, print media, audio, and video. Computer applications in those areas are emphasized. This class will cover all basic concepts and technical skills for using cameras, computers, lighting, and audio-visual equipment. Throughout the year, students will be required to support and promote school related activities such as sporting events, social gatherings within the school district, and community related events through the application of techniques learned in class. This will be the basis of most class projects.

345 MATERIAL & PROCESSES I **Grades 10-12** **1 Credit**
This course covers information on tools, machines, materials, and procedures through lecture, demonstration, and a heavy influence on application. The primary focus of this course will be to expose students to the processing of mixed media (wood, metal, polymers, and ceramics) with exposure to the materials used in current manufacturing trends. Areas covered will include but are not limited to: layout and design; individual projects; mass production, and finishing techniques.

346 MATERIAL & PROCESSES II **Grades 11-12** **1 Credit**
This course is a continuation of Material & Processes I with a focus on advanced techniques. The student's creativity will be challenged as they develop and create individualized projects based on topics and techniques covered in class. *Prerequisite(s): Must score a 70% or better in Material & Processes I.*

400 TV & VIDEO PRODUCTION **Grades 11-12** **1 Credit**
This course will introduce students to the basic concepts of storyboard creation, script writing, filming, editing, computer graphic generation, and producing short-subject videos. Students will explore the fundamentals of video equipment operation and video editing through use of editing software applications. A major component of this course will be in live broadcasting the daily announcements with the following production roles emphasized: director, news anchor, lighting engineer, sound engineer, switching board and teleprompter operators. Throughout the year, students will be required to produce videos that highlight school related activities such as sporting events, social gatherings within the school district, and community related events. When possible, students will participate in video production competitions. *Note: Students must have completed Digital Media Technology and/or teacher recommendation is required.*

WORLD LANGUAGES

Dramatic growth in international commerce and travel has increased the need for Americans to communicate with other nations. Government, business, and industry all need people with world language skills. The study of another country and its language broadens cultural insights. Students gain a better perspective of our language and heritage. The World Language Department offers four-year sequences in German and Spanish, and a four-year sequence in Latin. Students may elect one or more languages. *Based on grades in the first level course, students may require permission from the instructor to take subsequent courses.*

211 GERMAN I

Grades 10-12

1 Credit

Students acquire basic skills in understanding and speaking German through dialogs, phrases, and conversational practice. Reading and writing skills are begun through the study of sentence structure, paragraphs, and reading selections. Life in the German speaking countries is discussed via current events and text references, as well as modern videos.

212 GERMAN II

Grades 10-12

1 Credit

Building upon the basics of German I, students become more aware and capable of using the grammatical structures of the German language. Spoken German is emphasized with the situations becoming increasingly more appropriate to real life. Written and reading exercises gradually increase in both length and cultural awareness. Videos create an awareness of all aspects of German culture. *Prerequisite(s): German I (70% or better).*

213 GERMAN III

Grades 11-12

1 Credit

Students review and expand upon all the German language skills begun in German I and II, e.g. speaking, reading, writing, and knowledge of grammar. Increasingly difficult selections are read for understanding in German with less emphasis on translation. Oral expression in German is encouraged and used daily. Cultural appreciation is continued and may include a field trip. *Prerequisite(s): German II (70% or better).*

214 GERMAN IV

Grade 12

1 Credit

During the first semester students will complete the formal study of German grammar and vocabulary. The second semester will consist of advanced readings and oral presentations. Intensive use of spoken German is practiced. Individual seminar projects provide for a culminating experience. A field trip may be included. *Prerequisite(s): German III (70% or better).*

222 LATIN I

Grades 10-12

1 Credit

This course is offered to any high school student who has not completed it at the middle school. Emphasis is placed on learning basic Latin syntax and vocabulary development. Roman cultural topics such as the baths, government, the education system, gladiatorial shows, the forum, slavery and the eruption of Mt. Vesuvius are explored. Students are also exposed to Roman mythology.

223 LATIN II

Grades 10-12

1 Credit

The stories in this course take place outside of Rome. Emphasis is placed on vocabulary development and writing skills. The study of more detailed syntax continues as students learn all case uses and verb tenses. Cultural topics include life in Roman Britain and Alexandria, Egypt. Religion, astrology, science and medicine are also explored. The study of Roman culture again includes mythology. *Prerequisite(s): Latin I (70% or better)*

224 LATIN III

Grades 10-12

1 Credit

This course continues to explore Roman Britain. Vocabulary development is strongly emphasized and the study of Latin syntax includes the subjunctive mood, participles, gerundives, purpose and result clauses. The focus of the culture includes travel and communication in the Roman world, engineering, philosophy and entertainment. *Prerequisite(s): Latin II (70% or better)*

225 LATIN IV

Grades 11-12

1 Credit

The stories in this course are set back in Rome. Vocabulary development is still an emphasis and new grammatical concepts include the passive voice, gerunds and fearing clauses. The course also examines the writings of such noted Roman writers as Catullus, Horace, Ovid and Vergil in selected passages. Cultural topics to be studied include marriage, the senate and the court system. *Prerequisite(s): Latin III (70% or better)*

232 SPANISH I

Grades 10-12

1 Credit

In this first-year course, students are exposed to the Spanish language and the culture of those who speak it. Listening and speaking skills necessary for conversation are developed. Grammar is introduced and students begin to read and write in the target language. Basic vocabulary is learned to enable students to communicate with Spanish speakers.

233 SPANISH II**Grades 10-12****1 Credit**

Students continue to build upon skills attained in Spanish I. More complicated grammar structures, including the past tenses, are presented. Students are expected to produce more of the target language with a higher degree of accuracy. Their study of the culture of Spanish-speaking countries is also furthered. *Prerequisite(s): Spanish I (70% or better).*

234 SPANISH III**Grades 10-12****1 Credit**

The third-year course uses and further refines language skills learned previously. Included are short stories and other literary excerpts, as well as items of cultural interest, oral projects, written essays, and vocabulary units. Advanced grammar is studied. *Prerequisite(s): Spanish II (70% or better).*

235 SPANISH IV**Grades 11-12****1 Credit**

The main objective in this language course is to develop students' communication skills in Spanish by using the target language at all times and in different situations. This course will continue to develop their knowledge of Spanish in all four skills; listening, reading, writing, and speaking along with an appreciation for the culture, art, history, and literature of the Spanish speaking world. *Prerequisite(s): Spanish III (70% or better).*

236 AP SPANISH**Grade 12****1 Credit**

AP Spanish Language and Culture Course is an intensive course in advanced Spanish. This course will be conducted in Spanish. Students that are enrolled in this course practice perfecting their Spanish listening, speaking, reading and writing skills. They study vocabulary, grammar, and cultural aspects of the language and then apply what they have learned in extensive written and spoken exercises. By the end of the course, students will have an expansive vocabulary, and a solid working knowledge of all verb forms and tenses. The equivalent of a college level language course, AP Spanish prepares students for the AP Exam and for further study of Spanish language, culture, or literature. *Prerequisite(s): Spanish III - 90%, Spanish IV 90%, along with teacher recommendation. Students will be required to complete assignments the summer before they take this course. **Students may choose to take the AP exam at the student's expense.** See page 3 for AP criteria.*

INTERNSHIP**275 INTERNSHIP****Grade 12****1 Credit**

The purpose of the Internship Program is to prepare our students for the world of work and to have them examine their career interests and opportunities for continuing education. Students will participate in a workplace experience, in regularly scheduled meetings with the supervising teacher, and in semester presentations. Internships may be paid or unpaid. Internships can be tailored to the unique needs and interests of the learner. A learning agreement outlines the expectations of all parties: the student, parent, supervising teacher, employer, and school. It is the students' responsibility to identify a location for their internship opportunity as well as secure transportation to and from the internship site. The program is open to senior students.

INDEPENDENT STUDY

Students may participate in an independent study program to explore, in-depth, any subject area of interest by working one-on-one with a teacher familiar with the subject. Areas are chosen by the student after discussions with a school counselor and the teacher in charge. All independent study programs are for seniors only who want to explore an area not covered in the regular curriculum. Credits earned by an independent study must be credits beyond those required for graduation; and they may not substitute any course required for graduation. These credits are in addition to the normal course load for a student.

Students in an independent study program must be capable of completing the project with a minimum of teacher supervision and in addition to their regular schedule of classes. Application forms for this program are available in the Counseling office. Programs must be approved by the principal in the spring prior to the Independent Study taking place.

- 801 Independent Study - Art**
- 803 Independent Study - Audiovisual**
- 805 Independent Study - Business**
- 807 Independent Study - Computer**
- 809 Independent Study - English**
- 811 Independent Study - World Languages**
- 813 Independent Study - Family and Consumer Sciences**
- 815 Independent Study - Mathematics**
- 817 Independent Study - Music**
- 819 Independent Study – Wellness Education/Driver Ed**
- 821 Independent Study - Science**
- 823 Independent Study - Social Studies**
- 825 Independent Study - Technology Education**

XXI. SAMPLE SCHEDULE

After selecting your courses for next year, use this worksheet to plan your time. This schedule chart is helpful when determining the number of study halls you will have and to check if all courses you select will fit into your schedule. Don't worry about what periods your classes will be, but rather how many periods per cycle each course uses in your schedule.

	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Period 8	Period 9
Day 1			MUHL TIME						
Day 2									
Day 3									
Day 4									
Day 5									
Day 6									

XXII. YOUR FOUR-YEAR PLAN

YOUR FOUR-YEAR PLAN

Use this worksheet to plan your program for grades nine through twelve. In the space provided, list the courses, levels, and credits for the courses you have completed, are taking this year, and plan to take in the future. As you plan your program, be sure to consider your future career and educational goals as well as the graduation requirements.

YEAR	GRADE 9 ____ - ____	CREDIT	GRADE 10 ____ - ____	CREDIT	GRADE 11 ____ - ____	CREDIT	GRADE 12 ____ - ____	CREDIT
ENGLISH								
SOCIAL STUDIES								
MATHEMATICS								
SCIENCE								
ARTS & HUMANITIES								
WELLNESS EDUCATION								
PHYSICAL EDUCATION (9)								
CAREER EX								
HEALTH 1								
DRIVER ED/FCS								
ELECTIVE								
ELECTIVE								
ELECTIVE								
ELECTIVE								
ELECTIVE								
TOTAL CREDITS/YEAR								

SUMMER ASSIGNMENTS POLICY

Summer reading and/or other summer assignments are a requirement in many upper-level courses. These assignments introduce core concepts that are fundamental to the entire year's course of study. Assessments based on these readings and/or assignments are a substantial part of the first quarter grades; tests and/or other summative assessments based on summer assignments are typically given the first week of school, and further instruction proceeds from the assumption that all students have completed and comprehend these materials. Therefore, it is of the utmost importance that each student who enrolls in one of these courses takes these summer assignments very seriously and completes them to the best of his or her ability and in a timely fashion.

It is the students' responsibility to obtain their summer assignments from the teachers of said courses prior to summer vacation and to meet the deadlines set by that teacher. **Full credit for summer assignments will only be given for work completed and turned in on or before the due dates.** If, for any reason, a student does not meet his/her due date(s), yet completes and turns in the work within one week of the original due date, that student will earn 1/2 credit for that work. If more than a week after the due date passes, the student will still be responsible for completing the work during MUHLtime because the content is integral to the curriculum, but no points will be earned. Failure to complete summer assignments in a timely fashion is NOT a legitimate reason for dropping a course.

Please check the course(s) in which you are enrolling which require summer work

- | | |
|--|---|
| <input type="checkbox"/> AP English Lit & Comp (Grade 12) | <input type="checkbox"/> AP Biology (Grades 11 & 12) |
| <input type="checkbox"/> English 12 Honors (Grade 12) | <input type="checkbox"/> AP Chemistry (Grades 11 & 12) |
| <input type="checkbox"/> English 11 Honors (Grade 11) | <input type="checkbox"/> AP Env Science (Grades 11 & 12) |
| <input type="checkbox"/> English 10 Honors (Grade 10) | <input type="checkbox"/> AP Physics 1 (Grades 11 & 12) |
| <input type="checkbox"/> Am Cultures 10 Honors (Grade 10) | <input type="checkbox"/> AP Physics 2 (Grade 12) |
| <input type="checkbox"/> AP European History (Grades 10-12) | <input type="checkbox"/> AP Art History (Grades 11 & 12) |
| <input type="checkbox"/> AP Government (Grade 12) | <input type="checkbox"/> AP Studio Art (Grade 12) |
| <input type="checkbox"/> AP Psychology (Grades 10-12) | <input type="checkbox"/> AP Spanish (Grade 12) |
| <input type="checkbox"/> AP World History (Grades 10-12) | <input type="checkbox"/> AP Calculus AB (Grades 11 & 12) |
| <input type="checkbox"/> World Cultures Honors (Grades 10 & 11) | <input type="checkbox"/> AP Calculus BC (Grade 12) |
| <input type="checkbox"/> | <input type="checkbox"/> AP Statistics (Grade 11 & 12) |
| <input type="checkbox"/> | <input type="checkbox"/> |

You and your parents or guardians must sign below acknowledging that you have read and fully understand this Summer Assignments Policy as well as the required summer assignments for the course(s) checked above. Failure to return this form with the proper signatures along with your course selection sheet by the scheduling deadline set by the Counseling department can result in your removal from these courses.

Student's Printed Name _____ Student ID # _____

Student's Signature _____ Date _____

Parent/Guardian's Printed Name _____

Parent/Guardian's Signature _____ Date _____

Parent/Guardian's Printed Name _____

Parent/Guardian's Signature _____ Date _____

Parent/Guardian must sign and date this form before returning it to their respective teacher.

10th GRADE ARTS & HUMANITIES ELECTIVES

#	Art (AC)	Cr	#	Tech Ed (EI)	Cr	#	World Language (AC)	Cr
367	Intro to Draw & Paint	1	331	Computer Aided Drafting	1	222	Latin I	1
368	Introduction to Crafts	1	332	Arch Drawing & Design	1	223	Latin II	1
376	Multicultural Arts	1	333	Engineering Design	1	224	Latin III	1
378	Contemporary 2-D Design	1	341	Digital Media Technology	1	232	Spanish I	1
379	Exploring Sculpture: 3-D Design	1	345	Material & Processes I	1	233	Spanish II	1
			#	Music (AC)	Cr	234	Spanish III	1
#	Family Cons Science (HS)	Cr	351	Major Music I	1	211	German I	1
302	Family Foods	1	364	Voice Class	1	212	German II	1
307	Creative Living	1	365	Digital Music	1	213	German III	1
313	Fashion	1	386	Steel Drums I	1			

OTHER ELECTIVES

#	JROTC (ALL)	Cr	#	English (AC)	Cr	#	Computer Science (BFI & EI)	Cr
394	AFJROTC	1	041	Writing Elective	1/2	252	Programming with Python	1
			045	Speech Elective	1/2			
#	Business (BFI)	Cr	375	Theatre Arts	1	254	AP Computer Science Princ	1
240	Business Management	1						
243	Basic Accounting	1	#	Social Studies (HS)	Cr	258	Computer Game Design & Prog	1
245	Pers Financial Planning	1	092/ 093	Criminal Justice/This Generation	1/2 1/2			
247	Sports & Enter Mktg	1	089	AP Psychology	1	268	Mobile App Development & Prog	1
			090	General Psychology	1			
			095	Intro to Sociology	1			

CTC PM PROGRAMS

Course #	Program	Pathway	Cr	Course#	Program	Pathway	Cr
738	Ad Design/Commercial Art	AC	2 cr	791	Health–Medical Professions	SH	2 cr
740	Auto Body Repair	EI	2 cr	792	Health–Medical Careers	SH	2 cr
741	Automotive Tech	EI	2 cr	793	Health–Nursing Career	SH	2 cr
742	Baking/Pastry Arts	SH	2 cr	795	Health-Sports Med & Rehab	SH	2 cr
743	Bricklaying	EI	2 cr	755	Horticulture	HS	2 cr
744	Building & Property Maint	EI	2 cr	702	Information Technology Appl	BFI	2 cr
746	Carpentry	EI	2 cr	706	Information Technology Web	BFI	2 cr
739	Computerized Draft Tech	EI	2 cr	756	3D Manufacturing Technology	EI	2 cr
748	Cosmetology	HS	2 cr	757	Motor/Marine/Small Eng	EI	2 cr
749	Culinary Arts	SH	2 cr	758	Painting & Decorating	AC	2 cr
750	Diesel Truck Technology	EI	2 cr	759	Plumbing & Heating	EI	2 cr
751	Early Childhood Education	HS	2 cr	760	Printing & Graphic Comm.	AC	2 cr
752	Electrical Technology	EI	2 cr	761	Public Safety & Security	HS	2 cr
767	Engineering/Automation Tech	EI	2 cr	707	Service Occupations Ed	HS	2 cr
794	Health–Dental Occupations	SH	2 cr	763	Sewing/Clothing Manufacturing	EI	2 cr
				766	Welding/Metal Fabrication	EI	2 cr

THE 5 PATHWAY OPTIONS

PATHWAY OPTION	ABBREVIATION
Arts & Communication	AC
Business, Finance & Information Technology	BFI
Engineering & Industrial Technology	EI
Human Services	HS
Sciences & Health	SH

NAME: _____

11th Grade Course Selection Sheet 2020-2021

Instructions: Please circle your choice in each of the required course areas. Use the reverse side of this sheet to select your electives. Students must have their current year teacher initial each required course selection below.

REQUIRED COURSES			
<u>ENGLISH</u>	<u>PATHWAY: ALL</u>	<u>SOCIAL STUDIES</u>	<u>PATHWAY: HS</u>
023 – English 11 College 022 – English 11 Honors English 11*		071 – World Cultures College 070 – World Cultures Honors 088 – AP World History 089 – AP Psychology 090 – Gen Psychology 092/093 – Criminal Justice/This Generation 095 – Intro to Sociology	
_____ Teacher Recommendation Initial		_____ Teacher Recommendation Initial	
		<u>CTC – located in CTC section in HAC</u> 642 – American History College 640 – American History Honors	
		_____ Teacher Recommendation Initial	

<u>MATH</u>	<u>PATHWAY: ALL</u>	<u>SCIENCE</u>	<u>PATHWAY: SH</u>
122 – Advanced Algebra 2 114 – Precalculus Honors 115 – Precalculus College 125 – AP Statistics 117 – AP Calculus AB 118 – Calculus Honors Algebra 1/Geometry* Algebra 2/Geometry*		154 – AP Biology 158 – AP Chemistry 161 – Chemistry College 168 – Environmental Science 170 – General Physical Science 171 – Physics College 176 – AP Physics 1 175 – Human Anatomy & Physiology 179 – Astronomy & Meteorology	
_____ Teacher Recommendation Initial		_____ Teacher Recommendation Initial	
132 – Algebra 2/Trigonometry will be placed in your schedule if you were enrolled in Advanced Algebra 1/Geometry during your 10th grade year.		156 – Concepts of Life will be placed in your schedule if you do not pass the Biology Keystone.	
<u>REQUIRED COURSES**</u>	<u>PATHWAY:HS & SH</u>	<u>MUSIC</u>	<u>PATHWAY:AC</u>
410 – Wellness Education*		355 – Mixed Chorus 356 – Concert Chorus 357 – Blue Band 358 – Jazz Band	Please circle which music courses you will be taking.
*Students must successfully complete a Wellness Education course each year, grades 10-12 ** Required courses will be added to schedules automatically.			

ELECTIVES OR CTC

Over the course of four years, students are required to take a minimum 5 electives (2 Arts & Humanities and 3 other electives. Students must be enrolled in at least 2 credits of Arts/Humanities and/or other electives each year). You will select these electives when inputting your courses in HAC.

1. Course #: _____ Course Name: _____
2. Course #: _____ Course Name: _____

BACK-UP ELECTIVES

Please select two back-up electives in the event the above courses are not available. You will NOT select these electives when inputting your courses in HAC.

1. Course #: _____ Course Name: _____
2. Course #: _____ Course Name: _____

PARENT/GUARDIAN SIGNATURE: _____

Deadline for requesting Schedule Changes is April 24!

11th GRADE ARTS & HUMANITIES ELECTIVES

#	Art (AC)	Cr	#	Tech Ed (EI)	Cr	#	World Language (AC)	Cr
367	Intro to Draw & Paint	1	331	Computer Aided Drafting	1	222	Latin I	1
368	Introduction to Crafts	1	332	Arch Drawing & Design	1	223	Latin II	1
369	Adv Draw & Paint	1	333	Engineering Design	1	224	Latin III	1
370	Advanced Crafts	1	334	Construction Technology I	1	225	Latin IV	1
374	AP Art History	1	341	Digital Media Technology	1	232	Spanish I	1
376	Multicultural Arts	1	345	Material & Processes I	1	233	Spanish II	1
378	Contemporary 2-D Design	1	346	Material & Processes II	1	234	Spanish III	1
379	Exploring Sculpture 3-D Design	1	400	TV & Video Production		235	Spanish IV	1
			#	Music (AC)	Cr	211	German I	1
#	Family Cons Science (HS)	Cr	351	Major Music I	1	212	German II	1
300	Parent/Work w Children	1/2	352	Major Music II	1	213	German III	1
302	Family Foods	1	364	Voice Class	1	214	German IV	1
303	Multicultural Foods	1	365	Digital Music	1			
307	Creative Living	1	386	Steel Drums I	1			
312	Cook Once, Eat Twice	1/2						
313	Fashion	1						
			OTHER ELECTIVES					
			#	Computer Science (BFI & EI)	Cr			
			254	AP Computer Science Princ	1			
			256	AP Computer Science A	1			
#	JROTC (ALL)	Cr	258	Computer Game Design & Prog	1	#	Social Studies (HS)	Cr
394	AFJROTC	1	268	Mobile App Dev & Prog	1	086	AP Euro History	1
			#	Business (BFI)	Cr	089	AP Psychology	1
#	English (AC)	Cr	240	Business Management	1	090	Gen Psychology	1
041	Writing Elective	1/2	243	Basic Accounting	1	092	Criminal Justice	1/2
045	Speech Elective	1/2	244	Advanced Accounting	1	093	This Generation	1/2
375	Theatre Arts	1	245	Pers Financial Planning	1	095	Intro to Sociology	1
			247	Sports & Enter Mktg	1			

CTC AM PROGRAMS

Course #	Program	Pathway	Cr	Course#	Program	Pathway	Cr
710	Ad Design/Commercial Art	AC	2 cr	783	Health–Medical Professions	SH	2 cr
712	Auto Body Repair	EI	2 cr	784	Health–Medical Careers	SH	2 cr
713	Automotive Tech	EI	2 cr	785	Health–Nursing Career	SH	2 cr
714	Baking/Pastry Arts	SH	2 cr	788	Health-Sports Med & Rehab	SH	2 cr
715	Bricklaying	EI	2 cr	727	Horticulture	HS	2 cr
716	Building & Property Maint	EI	2 cr	700	Information Technology Appl	BFI	2 cr
718	Carpentry	EI	2 cr	704	Information Technology Web	BFI	2 cr
719	Computerized Draft Tech	EI	2 cr	728	3D Manufacturing Technology	EI	2 cr
720	Cosmetology	HS	2 cr	729	Motor/Marine/Small Eng	EI	2 cr
721	Culinary Arts	SH	2 cr	731	Painting & Decorating	AC	2 cr
722	Diesel Truck Technology	EI	2 cr	732	Plumbing & Heating	EI	2 cr
723	Early Childhood Education	HS	2 cr	733	Printing & Graphic Comm.	AC	2 cr
724	Electrical Technology	EI	2 cr	734	Public Safety & Security	HS	2 cr
786	Engineering/Automation Tech	EI	2 cr	709	Service Occupations Ed	HS	2 cr
787	Health–Dental Occupations	SH	2 cr	736	Sewing/Clothing Manufacturing	EI	2 cr
				782	Welding/Metal Fabrication	EI	2 cr

THE 5 PATHWAY OPTIONS

PATHWAY OPTION	ABBREVIATION
Arts & Communication	AC
Business, Finance & Information Technology	BFI
Engineering & Industrial Technology	EI
Human Services	HS
Sciences & Health	SH

NAME: _____

12th Grade Course Selection Sheet 2020-2021

Instructions: Please circle your choice in each of the required course areas. Use the reverse side of this sheet to select your electives. Students must have their current year teacher initial each required course selection below.

REQUIRED COURSES			
<u>ENGLISH</u>		<u>PATHWAY: ALL</u>	
033 – English 12 College 031 – English 12 Honors 030 – AP English & Literature Composition English 12*		082 – Government/Economics College 081 – Government/Economics Honors 080 – AP US Government & Politics	
_____ Teacher Recommendation		_____ Initial	
<u>MATH</u>		<u>PATHWAY: ALL</u>	
122 – Advanced Algebra 2 114 – Precalculus Honors 115 – Precalculus College 117 – AP Calculus AB 127 – AP Calculus BC 118 – Calculus Honors 120 – Math for the Workplace 135 – Probability & Statistics (Through Application) 136 – Probability & Statistics (Reasoning in Sports) 125 – AP Statistics 134 – Consumer Math Algebra 2/Geometry*		<u>SCIENCE</u>	
154 – AP Biology 158 – AP Chemistry 161 – Chemistry College 167 – AP Environmental Science 168 – Environmental Science 170 – General Physical Science 171 – Physics College 176 – AP Physics 1 177 – AP Physics 2 175 – Human Anatomy & Physiology 179 – Astronomy & Meteorology		<u>PATHWAY: SH</u>	
_____ Teacher Recommendation		_____ Initial	
<u>REQUIRED COURSES**</u>		<u>PATHWAY:HS &SH</u>	
410 – Wellness Education*		<u>MUSIC</u>	
*Students must successfully complete a Wellness Education course each year, grades 10-12 ** Required courses will be added to schedules automatically		355 – Mixed Chorus 356 – Concert Chorus 357 – Blue Band 358 – Jazz Band	
		Please circle which music courses you will be taking.	

ELECTIVES

Over the course of four years, students are required to take a minimum 5 electives (2 Arts & Humanities and 3 other electives. Students must be enrolled in at least 2 credits of Arts/Humanities and/or other electives each year). You will select these electives when inputting your courses in HAC.

1. Course #: _____ Course Name: _____
2. Course #: _____ Course Name: _____

BACK-UP ELECTIVES

Please select two back-up electives in the event the above courses are not available. You will NOT select these electives when inputting your courses in HAC.

1. Course #: _____ Course Name: _____
2. Course #: _____ Course Name: _____

PARENT/GUARDIAN SIGNATURE: _____

Deadline for requesting Schedule Changes is April 24!

12th GRADE ARTS & HUMANITIES ELECTIVES

#	Art (AC)	Cr	#	Tech Ed (EI)	Cr	#	World Language (AC)	Cr
367	Intro to Draw & Paint	1	331	Computer Aided Drafting	1	222	Latin I	1
368	Introduction to Crafts	1	332	Arch Drawing & Design	1	223	Latin II	1
369	Adv Draw & Paint	1	333	Engineering Design	1	224	Latin III	1
370	Advanced Crafts	1	334	Construction Technology I	1	225	Latin IV	1
371	AP Studio Art	1	341	Digital Media Technology	1	232	Spanish I	1
374	AP Art History	1	345	Material & Processes I	1	233	Spanish II	1
376	Multicultural Arts	1	346	Material & Processes II	1	234	Spanish III	1
378	Contemporary 2-D Design	1	400	TV & Video Production		235	Spanish IV	1
379	Exploring Sculpture: 3-D Design	1	#	Music (AC)	Cr	236	AP Spanish	1
			351	Major Music I	1	211	German I	1
#	Family Cons Science (HS)	Cr	352	Major Music II	1	212	German II	1
300	Parent/Work w Children	1/2	353	Major Music III	1	213	German III	1
302	Family Foods	1	364	Voice Class	1	214	German IV	1
303	Multicultural Foods	1	365	Digital Music	1			
307	Creative Living	1	386	Steel Drums I	1	#	Computer Science (BFI & EI)	Cr
312	Cook Once, Eat Twice	1/2	OTHER ELECTIVES			254	AP Computer Science Princ	1
313	Fashion	1				256	AP Computer Science	1
						258	Computer Game Design & Prog	1
#	JROTC (ALL)	Cr	#	Business (BFI)	Cr	268	Mobile App Dev & Prog	1
395	AFJROTC/SENIOR	1	240	Business Management	1			
			243	Basic Accounting	1	#	Social Studies (HS)	Cr
#	English (AC)	Cr	244	Advanced Accounting	1	086	AP Euro History	1
041	Writing Elective	1/2	245	Pers Financial Planning	1	089	AP Psychology	1
045	Speech Elective	1/2	247	Sports & Enter Mktg	1	090	Gen Psychology	1
375	Theatre Arts	1	275	Internship	1	092	Criminal Justice	1/2
						093	This Generation	1/2
						095	Intro to Sociology	1

CTC PM PROGRAMS

Course # PM	Program	Pathway	Cr	Course# PM	Program	Pathway	Cr
610	Ad Design/Commercial Art	AC	3 cr	686	Health–Medical Professions	SH	3 cr
612	Auto Body Repair	EI	3 cr	687	Health–Medical Careers	SH	3 cr
613	Automotive Tech	EI	3 cr	688	Health–Nursing Career	SH	3 cr
614	Baking/Pastry Arts	SH	3 cr	689	Health-Sports Med & Rehab	SH	3 cr
615	Bricklaying	EI	3 cr	627	Horticulture	HS	3 cr
616	Building & Property Maint	EI	3 cr	600	Information Technology Appl	BFI	3 cr
618	Carpentry	EI	3 cr	602	Information Technology Web	BFI	3 cr
619	Computerized Draft Tech	EI	3 cr	628	3D Manufacturing Technology	EI	3 cr
620	Cosmetology	HS	3 cr	629	Motor/Marine/Small Eng	EI	3 cr
621	Culinary Arts	SH	3 cr	631	Painting & Decorating	AC	3 cr
622	Diesel Truck Technology	EI	3 cr	632	Plumbing & Heating	EI	3 cr
623	Early Childhood Education	HS	3 cr	633	Printing & Graphic Comm.	AC	3 cr
624	Electrical Technology	EI	3 cr	634	Public Safety & Security	HS	3 cr
690	Engineering/Automation Tech	EI	3 cr	609	Service Occupations Ed	HS	3 cr
630	Health–Dental Occupations	SH	3 cr	639	Sewing/Clothing Manufacturing	EI	3 cr
				639	Welding/Metal Fabrication	EI	3 cr

If this is your third year at CTC then you will request the pm course number for your program.

THE 5 PATHWAY OPTIONS

PATHWAY OPTION	ABBREVIATION
Arts & Communication	AC
Business, Finance & Information Technology	BFI
Engineering & Industrial Technology	EI
Human Services	HS
Sciences & Health	SH