CHAMBERSBURG AREA SENIOR HIGH SCHOOL
Program of Studies

2010-2011



CASHS VISION

"Do what's right"
"Everyone respects everyone at all times"

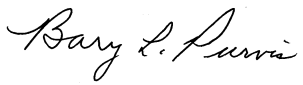
PARENTS/GUARDIANS

The curricula offerings at Chambersburg Area Senior High School are reviewed and revised each year to meet the changing needs of students and society. Your interest and cooperation in preparing your child's schedule for 2010-2011 will, therefore, possibly be one of the most important activities you complete together this year. The choices you make will impact on your child's opportunity for further education and further work choices.

The staff and administration at CASHS are committed to providing each student with the best educational program and are available to provide you and your child assistance in reaching that goal. Please feel free to contact any of the staff and administrators listed if you have any questions.

Best wishes for a great 2010-2011 school year.

Sincerely,



Dr. Barry L. Purvis
Principal

SCHEDULING

Each spring all students have an opportunity to select courses appropriate to their needs and future plans. An evening program is held, and a Program of Studies booklet is made available to students. The Program of Studies booklet can also be found on the Chambersburg Area School District's website. Members of the counseling department will be meeting with students to discuss their course selections for next year during their English classes and individual student planning conferences are available. Students are constantly encouraged to involve their parents in the course selection process.

In May, a master schedule is finalized for all high school students. After this time, schedule changes become extremely difficult because teachers, supplies, books and classroom spaces and class sizes have been arranged based on the courses students have selected. Thus schedule changes will be limited and only made for valid academic reasons. Please consider all decisions carefully.

TABLE OF CONTENTS

Educational Pathways at CASHS 1
Course Selection 1
Course Changes 1
Course Load 1
Requirements for Classification 2
Graduation Requirements 2
Junior Project 2
Requirements for College Entrance 2
Summer School 2
CASHS Expanded Education Opportunities 2
eLearning Courses 3
Maximizing College Credits While in High School 3
Early to College 6
Dual Enrollment State Grant 7
Advanced Placement Background 8
Summit Healthcare Careers Institute 9
Cooperative Education 9
- CAPSTONE 9
- Diversified Occupations 10
- Elementary Education Internships 10
- Child Development 11

Kaplan University 11
Penn College of Technology Articulation Agreement 11
Franklin County Career and Technology Center Articulation Agreements By Shops 11
School Profile 14
NCAA Clearinghouse Information 15
Educational Pathways, grades 10-12
- Fine Arts and Humanities 18
- Business and Technology 24
- Engineering/Industrial 31
- Health, Science and Human Services 37
- Franklin County Career and Technology 43

Faust Program of Studies Course Descriptions 46-55
Department Course Listings and Descriptions
- Agriculture Education 57
- Art 62
- Business and Technology 64
- English 72
- Family and Consumer Sciences 79
- Fitness and Wellness and Driver Education 81
- Learning Support 84
- Mathematics 85
- Music 90
- Science 94
- Social Studies 99
- Technology Education 104
- Franklin County Career and Technology Center 113

Non-Discrimination Policy 121

TELEPHONE DIRECTORY
Chambersburg Area Senior High School
Administration

Dr. Barry L. Purvis, Principal	261-3322
Mrs. Deborah Luffy, Assistant Principal, Grade 11	261-3324
Mr. Brad Ocker, Assistant Principal, Grade 10	261-3323
Mr. Brian Hosteler, Assistant Principal, Grade 12	261-3326
Mr. Donald Folmar, Athletic Director	267-4460

Counseling
2010-2011 Assignments

Ms. Suzanne Eyer	Grade 10 – student's last name beginning A-K	261-3341
Ms. Tracy Martin	Grade 10 – student's last name beginning L-Z	261-3338
Mrs. Heidi Lebitz	Grade 11– student's last name beginning A-K	709-4024
Mrs. Alecia Garman	Grade 11 – student's last name beginning L-Z	261-3340
Mr. Christopher Yohe	Grade 12 – student's last name beginning A-K	261-3339
Ms. Maria Weinzierl	Grade 12 – student's last name beginning L-Z	261-3337
Mrs. Mary Miller	Secretary	261-3342

A MESSAGE FROM THE CASHS/FAUST COUNSELORS

Please read the first section of this book carefully. It contains pertinent information regarding areas such as graduation requirements, reasons for schedule changes, NCAA requirements for athletes and hints for Career and Technology students. Appropriate course selection by students is a primary concern to us and it involves a cooperative effort. We welcome your input and inquiries. Please contact the Counseling Office if you need additional information on any of our courses or courses of study.

TELEPHONE DIRECTORY
J. Frank Faust Junior High School
Administration

Mrs. Patricia Jacobs, Principal	261-3369
Ms. Lisa Crouse, Assistant Principal	261-3486
Dr. Angela Pollock, Assistant Principal	261-3370
Mr. Christopher Buhrman, Athletic Director	261-3371

Counseling
2010-2011 Assignments

Mrs. Heather Miller	Grade 8- student's last name beginning A-L	261-3374
Mr. Steven McNew	Grade 8- student's last name beginning M-Z	261-3373
Mrs. Linda Moyer	Grade 9- student's last name beginning A-L	709-4081
Mr. Michael Overcash	Grade 9- student's last name beginning M-Z	261-3485
Mrs. Nancy Watkin	Secretary	261-3375

CHAMBERSBURG AREA SENIOR HIGH SCHOOL COURSE GUIDE
2010-2011
EDUCATIONAL PATHWAYS AT CHAMBERSBURG AREA SENIOR HIGH SCHOOL

The Educational Pathways program is both a process and a structure providing comprehensive information and guidance so students can make better informed decisions in career planning and educational course selections.

Starting in eighth grade, the Chambersburg Area School District encourages students to think seriously about their futures and plan an educational program that will provide the necessary knowledge and skills to succeed.

Four career clusters show students how the world of work is divided into meaningful, identified educational pathways:

- Fine Arts and Humanities
- Business/Technology
- Engineering/Industrial
- Health, Science and Human Services

Students learn about current trends in career development and make tentative choices about a chosen career. Then they review courses that make the choice a reality. Long-term career development encourages students and parents to make course selections based on student aptitudes, interests, developed skills, and current career information. Because of this new direction, students must consider curriculum selections and career choices together. Students and school counselors annually review these decisions.

It is a win-win situation for all stakeholders: students, parents, funding sources, community, and faculty. Because parents and students are active participants in the process, constant communications is vital. Students may engage in work-based learning activities such as job shadowing, co-op, and work experiences.

COURSE SELECTION

You may take any course appropriate to your ability and interest. We suggest that you carefully follow the recommended prerequisites and program of studies for your educational pathway. Any student who would like to take any course, but does not meet the recommended prerequisites, must have parents sign a waiver form requesting enrollment in that course.

COURSE CHANGES

Changes to a selected course may be made through the student's counselor until one week prior to the first day of school. During the first week of school, changes will be made only for the following scheduling issues: (1) scheduling error; (2) scheduling conflicts (3) academic misplacement. No other changes will be considered unless they are of an extreme circumstance. Final scheduling decisions are subject to the discretion of the counseling and administrative team.

After a student completes more than one-half of any course (nine weeks for a semester course and eighteen weeks for a one-credit course) the student may not drop the course.

COURSE LOAD

It is recommended that all CASHS students carry a minimum of 6 credits. It is recommended that all students schedule a lunch and no more than one study hall per day. J. Frank Faust students must carry a minimum of 7 credits, meeting five days per week, four being core subject areas.

REQUIREMENTS FOR CLASSIFICATION

A student must have earned 6 academic credits to be enrolled in 10th grade; 10 cumulative academic credits to be enrolled in 11th grade; and 16 cumulative academic credits to be enrolled in 12th grade. These units include English –which must be passed in grades 9, 10, 11, and 12.

GRADUATION REQUIREMENTS

A total of 23.5 credits in grades 9-12 are required for graduation. Seventeen of the 23.50 credits must be in major subject areas exclusive of: Band, Instrumental Music, Jazz Band, Symphonic Orchestra, Glee Club, and Elective Physical Education. Additional requirements are Speech-.25, Wellness & Fitness-2.00, and Driver Education Classroom-.25 the Junior Project, and proficiency on the PSSA Reading and Math tests or a District alternative.

Core Courses:

4.00	Credit Units English
4.00	Credit Units Math
3.00	Credit Units Science
3.50	Credit Units Social Studies
2.00	Credit Units Wellness & Fitness
6.50	Credit Units Elective
.25	Driver Education Classroom
.25	Speech
23.50	

JUNIOR PROJECT

Current State regulations now require all students to complete a high school project as a graduation requirement. Chambersburg Area Senior High School requires the completion of a Junior Project to fulfill this requirement. The Junior Project is completed in conjunction with their junior English class. *Successful completion of the Junior Project is required for graduation.*

REQUIREMENTS FOR COLLEGE ENTRANCE

Requirements for college admissions vary widely. Consult college catalogs, web sites, college software in the Career Center, and counselors for specific information.

SUMMER SCHOOL

Individuals who have failed required subjects are encouraged to enroll in the summer school program. Students who earn an Incomplete (I) in any required subject will not be allowed to remediate the course in summer school. That course must be repeated the following school year. All core courses will be remediated through our summer school programs. Students should contact their school counselor for registration details. In the event the student does not enroll in summer school, he/she will have to repeat the subject when the master schedule permits.

Students who pass English 11 but earn a "W" in the Junior project must remediate the project by hiring a tutor over the summer for $25 per hour to assist them in completing the project. If the project is completed satisfactorily, the Junior Project grade of "W" will be changed to a "D" by the tutor. If the student does not remediate the Junior Project, he/she will be required to repeat English 11.

CASHS EXPANDED EDUCATIONAL OPPORTUNITIES

Chambersburg Senior High School has a commitment to our students to provide an educational experience that will help them to discover their pathway in life. That pathway can lead to the job market, the military, a certificate program in a technical school, a community college or a 4-year college.

Helping students to find their pathway begins in the 8th grade with the Careers class and continues through high school with students choosing an educational pathway. CASHS' core courses,

electives, and the FCCTC shops support students' choices and enhance their exploration into their future.

Another important piece of this exploration is the opportunity to leave the high school campus and make post-secondary connections before graduation. CASHS strongly encourages students to think beyond the 12th grade and make plans for after graduation.

To this end, CASHS has compiled a listing of post-secondary opportunities that students can access while still in high school. We encourage students and their parents to take advantage of these experiences to learn, grow, and plan for the future.

ELEARNING COURSES

ELearning courses will be presented in a blended format. Portions of the course will be presented online and portions will consist of face-to-face instruction. Requirements for enrollment in these courses include; completion of a self-readiness assessment for online learning, access to high-speed Internet (access can be from home, CASHS computers, or the public library), and a disciplined/self-motivated learning style. These courses will require a considerable amount of time outside of the traditional classroom setting. Elearning courses will not deviate from the course content of instruction, but will vary in delivery method. If you have additional questions about these courses, please see your guidance counselor.

MAXIMIZING COLLEGE CREDITS WHILE IN HIGH SCHOOL

The following programs provide Chambersburg Area Senior High School students with the opportunity to earn college credits while in high school. During the course of a 9 through 12th grade education at CASHS some students realistically can earn between 24 to 30 college credits or more depending upon the combination of College in the High School, Early to College, Dual Enrollment and Advanced Placement courses they schedule.

Courses:	*Grade Available:*	*Semester/ Year Long:*	*Qualifications:*	*Institutions:*
		College in the High School		
Human Anatomy and Physiology	11, 12	Year Long	Completion of Biology with at least a "B".	CASHS/HACC
Environmental Studies	10, 11 12	Year Long	Completion of Biology	CASHS/HACC
Agribusiness	11, 12	Semester	None	CASHS/HACC
AP US History	10, 11, 12	Year Long	Summer assignment	CASHS/HACC
College Algebra	11, 12	Year Long	Completion of Algebra II. Must qualify after taking the HACC math placement test.	CASHS/HACC

Courses:	*Grade Available:*	*Semester/ Year Long:*	*Qualifications:*	*Institutions:*
Probability and Statistics	11, 12	Semester	Completion of Algebra II. Must qualify after taking the HACC math placement test.	CASHS/HACC
AP Statistics	10, 11, 12	Year Long	Completion of Algebra II. Must qualify after taking the HACC math placement test.	CASHS/HACC
AP Calculus	10, 11, 12	Year Long	Completion of Pre-Calculus. Must qualify after taking the HACC math placement test	CASHS/HACC
College Calculus	10, 11, 12	Year Long	Completion of Pre-Calculus (Grade of "C" recommended). Must qualify after taking the HACC math placement test.	CASHS/HACC
		Early To College Part-Time		
Any Entry level	11, 12	Semester	2.5 QPA, Grade level Principal's approval, Early to College application/ Acceptance. Student/ family responsible for all costs.	CASHS and any approved College/College University
		Early to College Full-Time		
Any Entry level	11, 12	Semester	3.5 QPA, Grade level Principal's approval, Early to College application/ Acceptance. Student/ family responsible for all costs.	CASHS and any approved College/College University

Courses:	*Grade Available:*	*Semester/ Year Long:*	*Qualifications:*	*Institutions:*
		Dual Enrollment Grant		
Any Entry Level College Course	11, 12	Semester	2.5 QPA, Grade level Principal's approval, College/University Early To College application/ acceptance. Student/ Family responsible for fee (approximately 40% of the cost of the course), books and transportation. Grant covers approximately 60% of tuition/fees.	CASHS PSU, Mont Alto Shipp. Univ. Wilson College
		Advanced Placement		
AP US History	10, 11, 12	Year Long	Summer Assignment	CASHS
AP European History	10, 11, 12	Year Long	Summer Assignment	CASHS
AP Psychology	Primarily 11, 12	Year Long	Summer Assignment,. Av Grade of "C" or higher in Biology, CP English or CP Social Studies.	CASHS
AP American Government and Politics	11, 12	Year Long	Summer Assignment Recommneded .Completion of CP World History with a grade of "B" or higher. Currently enrolled in CP/AP American History	CASHS
AP Macroeconomics	11,12	Year Long	Summer Assignment, Recommneded. Completion of CP World History with a grade of "B" or higher. Currently enrolled in CP/AP American History	CASHS
AP Calculus	10, 11, 12	Year Long	Successful completion of Pre-Calculus	CASHS
AP Statistics	10, 11, 12	Year Long	Successful completion Algebra II.	CASHS

Grade Courses:	Semester/ Available:	Year Long:	Qualifications:	Institutions
AP Biology	12	Year Long	Completion of Honors Biology with at least a "B". Completion of a Chemistry course may be concurrent.	CASHS
AP Chemistry	10, 11, 12	Year Long	Completion of Honors Chemistry with at least a "B"	CASHS
AP Physics	10, 11, 12	Year Long	Completion of Honors Physics with at least a "B".	CASHS
AP Studio Art	11, 12	Year Long	Successful completion of Drawing II.	CASHS
AP English	12	Year Long	Recommended "A" in Honors English 11	CASHS

Grade Courses:	*Semester/ Available:*	*Year Long:*	*Qualifications:*	*Institutions:*
AP Latin, German Spanish	11, 12	Year Long	Recommended Honors III. Spanish level course completion with at least a grade of "C".	CASHS

EARLY TO COLLEGE

The Early to College Program offers full time studies to seniors and part-time studies to juniors and seniors. Students who want to experience college classes may apply to participating local colleges of their choice for admission. Students must meet the CASD requirement of a 3.5 QPA for full-time and a 2.5 QPA for part-time studies as well as any college entrance requirements. The student and/or guardian are responsible for tuition, fees, books, transportation and all other costs. Credit earned at the college is eligible for high school credit, also. The full policy of requirements is on file with the counseling department.

Full-Time Early Studies

To provide the student with the greatest opportunity for success in this transition, the student should have the following to receive the recommendation of the principal:

1. Successful completion of the eleventh grade
2. Class rank in the upper tenth (1/10) **or**
3. Cumulative Q.P.A. of 3.5 or better
4. Minimum SAT scores as required by the college or university
5. The student must meet all the requirements for the early studies program at the college or university for which s/he is seeking admission.
6. The student must take at least twelve (12) credit hours per semester at the college or university with one course being English
7. Counselor-parent-principal interview must take place.
8. Recommendation of at least three (3) teachers of academic subjects.
9. Recommendation of the counselor and the principal
10. Tuition/books/transportation will be the responsibility of the student/parent(s).

The early studies student may receive his/her high school diploma upon successful completion of the freshman year at the college or university and must have at least a 2.0 average at the completion of the freshman year.

Students will not be eligible for class rank and coinciding recognition.

Students will be eligible to participate in extra-curricular & co-curricular activities. The early studies student may also participate in the high school Baccalaureate and Commencement programs.

Part-time Early Studies

To provide the student with the greatest opportunity for success in this transition, the student should have the following to receive the recommendation of the principal:

1. Successful completion of the tenth grade
2. Class rank in the upper quarter (1/4) **or**
3. Cumulative Q.P.A. of 2.5 or better.
4. The student must meet all the requirements for the early studies program at the college or university for which s/he is seeking admission.
5. The student may take only one (1) course per semester at the college or university, with exceptions approved by the principal.
6. Counselor-parent-principal interview must take place.
7. Recommendation of at least three (3) teachers of academic subjects.
8. Recommendation of the counselor and the principal.
9. Tuition, books, fees and transportation will be the responsibility of the students/parents(s).

Courses taken at approved college or university programs will appear on student's transcript but will not be weighted.

Students will be eligible to participate in extra-curricular & co-curricular activities.

DUAL ENROLLMENT STATE GRANT

The Pennsylvania Department of Education provides that students may leave high school prior to the senior year to attend college or university, at the discretion of the School District. Enrollment in this program is for juniors and seniors only through an application process. Students must meet the early to college requirements, be proficient on the PSSA tests, and be enrolled in CP English as well as meet the requirements for admission set by our college partners. Our partner institutions are Wilson College, Shippensburg University, and Penn State-Mont Alto. Grant money for this program may vary, and is awarded on a yearly basis. Fees for students are calculated according to the amount of funding received. "For the 2009/10 school year 60% of tuition was paid by grant money and 40% was paid by the student/parent. This amount has not yet been determined for the 2010/11 school year. The student/parent is responsible for transportation, books, meals and the difference of costs for tuition/fees not covered by the grant."

The Chambersburg Area Senior High School offers expanded educational opportunities for both high school and collegiate credit. The courses are offered in a variety of delivery formats. Scheduling these courses is based on an application process, principal's approval, District guidelines and School Board Policy.

DESCRIPTION: Dual-enrollment programs are designed to give students greater opportunities to complete high school with adequate preparation for college and careers. It is a locally administered program that allows a secondary student and postsecondary credit for that course work.

PARTICIPATING COLLEGES: Chambersburg Area Senior High School has signed agreements with the following colleges: Penn State, Mont Alto; Wilson College; and Shippensburg University. Other colleges may join this effort. The colleges view this grant as an opportunity to form a partnership among the students, parents, school system, and college.

TARGET POPULATON: In Pennsylvania, dual enrollment is for the capable, not just the exceptional students. Students who can demonstrate the skills that are needed to succeed in a non-remedial college course are the target population for the Pennsylvania's Dual Enrollment Grant Program.

REQUIREMENTS: The requirements for this program are: students must be seniors with a class rank in the upper quarter or a minimum QPA of 2.5. Students must meet the entrance requirements and be approved by the college for participation. Minimum requirements are currently taking college preparatory English or higher, a score of proficient or higher on the Grade 11 PSSA Reading and Math tests, and SAT scores meeting individual college requirements.

COURSE LOAD: Part-time students may take one course per semester unless the principal approves additional courses. The cost of additional courses will be the responsibility of the student and their family. Students will be expected to complete 2-3 hours of homework outside of the college class for each hour spent in the college classroom.

FINANCIAL RESPONSIBILITY**:** The amount of Dual Enrollment from the state of Pennsylvania 2010-2011 school year, has not yet been determined. The student and/or parent will be responsible to make up the difference not covered by the grant money and are responsible for costs, tuition, fees, books, and for transportation to and from the college campus.

STUDENT CREDIT: In order to successfully complete a course, the students must earn a minimum grade of a "D". Chambersburg Area School District will award credit for and recognize courses that are successfully completed as fulfilling graduation requirements. The college will award postsecondary credit to students who successfully complete courses. The college, will transcript this credit in a manner similar to other students at the college following graduation from high school; the college shall recognize those credits as applying to the students' degree requirements as it would for any regularly enrolled postsecondary student who took the courses.

EQUAL OPPORTUNITIES: The Chambersburg Area School District and college agree not to unlawfully discriminate on the basis or race, nationality, ethnicity, religion, gender, age, or disability in any undertaking pursuant to this program.

ADVANCED PLACEMENT BACKGROUND

It is imperative that we continue to provide multiple opportunities for students to gain college credentials while in high school, as post-secondary education costs continue to rise. As we look into the future to 2020, we see the continued blurring of the lines between grades eleven through fourteen. The opportunities continue to grow for students who are ready to tackle the challenges of advanced course work.

Chambersburg Area Senior High School currently has four ways for students to gain college credits while still in High School:

1. Students may take "**College in the High School**" classes at $90.00 per class and a one time registration fee of $35.00. Classes are taught by CASD teachers that are certified by the Harrisburg Area Community College (HACC) as adjunct professors. Upon successful completion of the course(s) students will receive a college transcript from HACC (Anatomy and Physiology, Statistics, Calculus, Agriculture Business and Leadership, and others).

2. Students may participate in the grant funded **Dual Enrollment** program where students can earn college credit by taking approved courses through Shippensburg University, Wilson College and Penn State Mont Alto. The student/parent is responsible is responsible for transportation, books, meals and the difference of costs for tuition/fees not covered by the grant. This amount has not yet been determined for the 2010-2011 school year. A total of 75 slots have been requested for students to take college courses for the 2010-2011 school year.

3. Students can participate in the **Early to College Program** (**Part Time Early Studies** for 11th and 12th grade students; **Full Time Early Studies** for 12th grade students). Students/parents are responsible for all college costs however many local colleges and universities offer reduced rates for Early to College students. Interested students should contact their grade level principal for approval and contact the college/university they wish to attend to complete an Early to College Application.

4. Students may receive college credit for scoring 3 or higher on **Advanced Placement (AP) tests** depending upon the college/universities AP policy. The cost to take the AP test is $86.00

Chambersburg Area School District is raising the expectations for all students in the district not just the "non-proficient" students. Hunter Proctor, a former CASHS graduate recently stated, *"I was <u>left behind</u> because I did not realize that everyone else takes AP tests. Because I did not take AP exams, I have been put at a disadvantage."*

SUMMIT HEALTHCARE CAREERS INSTITUTE

Summit Health and the Chambersburg Hospital have designed a program to give juniors and seniors an opportunity to explore various health care careers. Selected students will engage in critical thinking, observation, inquiry, assessment and reflection on possible career choices through education presentations, mentor relationships with multiple health care professionals and volunteer service experiences in a variety of health care settings. The institute is offered for one semester per year from 7:30 a.m. to 9:00 a.m. Monday through Friday. The experience is free of charge and the student earns .50 – 1.0 credits. An application and interview are required.

CAPSTONE COOPERATIVE EDUCATION WORK EXPERIENCE

All students earn school credit and are paid for work related to their studies.

- **Business**
- **Agriculture**
- **Construction Tech**
- **Art**
- **Music**

To qualify for the **Capstone Cooperative Education Work Experience** paid work experience program, students **must** have a recommendation from their guidance counselor, the Co-Op

Coordinators and their Assistant Principal. They **must** carry two full-year courses (two credits) in their chosen major in both their junior and senior year. Employment must be directly related to their major; i.e., Business Major—job as an office assistant, in marketing, sales, banking, general office work, etc.

The Co-Op Coordinators will complete scheduled and unannounced supervisory on-site visits regularly. Employer Evaluations are to be completed each marking period by the student's employer.

The student must initiate the process of entering the Cooperative Education Program by completing a Resume, the *Co-Op Program Student Recommendation*, and the *Application for Cooperative Education*. Both forms are included in this Scheduling Packet. **All deadlines must be followed.**

DIVERSIFIED OCCUPATIONS COOPERATIVE EDUCATION WORK EXPERIENCE

Students earn school credit for participating in paid and unpaid learning experiences that relate to the field of study or their career objective they plan to pursue after graduation.

To qualify for the **Diversified Occupations Cooperative Education Work Experience** paid and unpaid work experience program, students must have a recommendation from their guidance counselor, the Co-Op Coordinators and their Assistant Principal. Students are highly encouraged to take additional coursework related to their chosen career objective. Student Work Experience **must** be related to the career that the student wishes to pursue after graduation; i.e., speech therapy, Christian ministry, drafting/engineering, etc.

The Co-Op Coordinator/s will complete scheduled and unannounced supervisory on-site visits regularly. Employer Evaluations are to be completed each marking period by the student's employer.

The student must initiate the process of entering the Cooperative Education Program by completing a Resume, the *Co-Op Program Student Recommendation*, and the *Application for Cooperative Education*. Both forms are included in this Scheduling Packet. **All deadlines must be followed.**

ELEMENTARY EDUCATION—INTERNSHIP

This is an unpaid work experience for students wishing to enter the field of elementary or secondary education after graduation. Students will be placed in classroom assignments. Students earn school credits for this assignment.

To qualify for the **Elementary Education – Internship** unpaid work experience program, students must have a recommendation from their guidance counselor, the Co-Op Coordinators and their Assistant Principal.

The Co-Op Coordinators will complete scheduled and unannounced supervisory on-site visits regularly. Employer Evaluations are to be completed each marking period by the cooperating teacher. The cooperating teacher will also complete attendance records once a week.

If your Career Objective is Elementary Co-Op, *the Elementary Co-Op Choices or Preferences* form must also be completed along with a Resume, the *Co-Op Program Student Recommendation*, and the *Application for Cooperative Education*. **All deadlines must be followed.**

CHILD DEVELOPMENT—INTERNSHIP

Students in the high school child development program can earn high school credits through this unique unpaid learning experience. All assignments are in a nursery school environment. Upon completion of the classes and work experience, students can earn a level one childcare certificate. CASHS child development program is recognized by the state to award this certificate.

KAPLAN UNIVERSITY

Students at CASHS can receive credit from Kaplan University through an articulation agreement for the following CASHS business courses: Accounting I & II, Business Law, Power of MS Word, Computer Keyboarding, Office Management and Technology, A+ Computer Repair, and completion of the core level MOUS exam in Word, Excel, Access, and Power Point. Students must enroll in a program at Kaplan University where the above courses are applicable to receive credit. Credit for the applicable articulated courses shall be awarded upon receipt of an official high school transcript and successful completion of the student's first quarter at Hagerstown Business College. Request for credit must be made within 18 months of the student's graduation from high school.

PENN COLLEGE OF TECHNOLOGY ARTICULATION AGREEMENT

The Chambersburg Area School District, the Franklin Country Career and Technology Center and Penn College of Technology have an articulation agreement with the purpose of providing students with a smooth transition from the Tech-Prep program of the high school and the career center to the postsecondary education program at Penn College. CASHS students who complete their academics and tech-prep program as well as pass the placement tests into the college-level courses required for their selected postsecondary program of study will be a Penn College Tech Prep student. Admission to programs will be based on the seats available at the time of admission and the following criteria: pass placement tests in their chosen program of study, apply and pay their tuition deposit before October 31 of their high school graduation, pay tuition and fees within deadlines and have the school district identify the student as a high school Tech Prep enrollee to the Penn College Outreach for K-12 Office no later that November 30th of the student's high school graduation year. Currently, FCCTC programs can be articulated in the following Penn College Cluster Areas: Business and Computer Technologies, Engineering Technologies, Health and Human Services, Construction and Building Trades, Communication Technology, Hospitality Services, Agriculture/Natural Resources and Mechanical/Transportation Technologies.

FRANKLIN COUNTY CAREER AND TECHNOLOGY CENTER ARTICULATION AGREEMENTS BY SHOP

ALLIED HEALTH

CENTRAL PENN COLLEGE - total of 3 credits: Medical Technology via examination

HARRISBURG COMMUNITY COLLEGE - total of 7 credits: Allied Health 140 and Biology 105

AG MECHANICS

PITTSBURGH INSTITUTE OF AERONAUTICS - total of 8 credits: Welding Technology AF375, Safety and Environment GS113, Introduction to Electricity 119, Introduction to Reciprocating Engines PP245, Reciprocating Engine Technology PP246.

AUTO BODY TECHNOLOGY

NEW ENGLAND INSTITUTE OF TECHNOLOGY - total of 13 credits: Introduction to Transportation Technology TT105, Oxy and Electric Welding and Cutting TT114, Fundamentals of Auto Body Metal Repairs AUB101, Fundamentals of Paint and Refinishing Equipment AUB 137, and Fundamentals of Paint and Refinishing lab AUB138

AUTOMOTIVE TRAINING CENTER - total of 16 weeks of advanced placement standing in brakes, electrical, steering and suspension.

AUTOMOTIVE TECHNOLOGY

ADVANCED TECHNOLGY INSTITUTE - transfer of credits will be evaluated individually.

ALLEGHENY COLLEGE - total of 2 credits: articulation agreements related to Technical Automotive (05-105)
NORTHWESTERN OHIO UNIVERSITY - total of 12 credits: Steering and Suspension AU126 and Hydraulic Brake Systems AU127
UNIVERSAL TECHNICAL INSTITUTE – Brakes – Brakes C107, Electrical/Electronic System-Electronic Fundamentals C117, Engine Performance-Fuel and Ignition System-A104, Suspension and Steering – Automotive Under Car – 128, Automatic Transmission – A109, Heating and Air Conditioning – Climate Control – C108, Manual Drive Train and Axles – Automatic Power Train – A106. Students will be granted advanced placement and tuition reduction for each subject area in which they achieve a passing grade in the challenge test on the corresponding ASE test. Students will receive a $500 Articulation Credit if they do not pass any of the tests.
AUTOMOTIVE TRAINING CENTER - total of 16 weeks of advanced placement standing in brakes, electrical, steering and suspension.

CARPENTRY

CUMBERLAND VALLEY CHAPTER OF THE ASSOCIATED BUILDERS AND CONTRACTORS - 1st year apprenticeship program.

COMPUTER TECHNOLOGY

CENTRAL PENNSYLVANIA COLLEGE – total of 12 credits: CISCO 1-IV; Networking Fundamentals – CIS135, Networking Routers and Routing – CIS145, Switching and WANS – CIC267, Computer Repairing, CISCO and Programming *Microcomputer System* – CIS140
HAGERSTOWN COMMUNITY COLLEGE – total of 12 credits: Networking Basics – 154, PC Tech; Repair and Trouble Shooting 150, PC Tech: Operating SYS – 151, Introduction to Information Technology – IST 102
HAGERSTOWN BUSINESS COLLEGE – total of 9 credits: CIS120 PC Repair: Hardware and Troubleshooting, CIS121 PC Repair: Software and Troubleshooting

CULINARY ARTS

BALTIMORE INTERNATIONAL COLLEGE – total of 7 credits: Principals of Sanitation – San 110; Introduction to Culinary Arts – CA100
CENTRAL PENNSYLVANIA COLLEGE – total of 3 credits: Basic Nutrition – SCI100
JOHNSON AND WALES – total of 24 quarter credits: Culinary Arts Programming – Introduction to Baking and Pastry – CUL1345, New World Cuisine – CUL1355; Foods I – FSM1070, Hotel Management (Foods 1) – SFM 1070, Restaurant Management A.S (Food 1); Food Preparation and Management – FSM 2660
INDIANA UNIVERSITY OF PENNSYLVANIA – Courses that offer national certification and or national testing
YORKTOWNE BUSINESS INSTITUTE – Knife Skills and Product ID – Ca-08, Rudiment is Cooking – Ca-09, Soups, Stocks, Sauces, and Meat Fabrication – Ca-10

DIESEL MECHANICS

NORTHWESTERN OHIO UNIVERSITY – total of 12 credits: Suspension and Steering – AUI126, Hydraulic Brake Systems – AU127 Hydraulic Brake System

ELECTRICAL OCCUPATIONS

BROWN TECHNICAL INSTITUTE – credit for previous training will be added on a case-by-case basic percentage of credit towards tuition shall not exceed 20%.
PITTSBURGH INSTITUE OF AERONAUTICS – total of 8 credits: Practical Electricity – EL 125, Electrical Systems – EL 126, Safety & The Environment – GS113, Introduction to Electricity
NEW ENGLAND INSTITUTE OF TECHNOLOGY – total of 13 credits: Electrical Foundation 1 – ELY 114, Electrical Foundation 1 lab – ELY 115, Introduction to Residential Wiring – NEC 1 ELY 116, Basic Wiring Techniques lab – ELY 117, Residential Wiring NEC 11 – ELY 126, Residential Wiring lab 1 – ELY 127

ELECTRONICS RELATED TECHNOLOGY

PITTSBURGH INSTITTUE OF AERONAUTICS – total of 8 credits: Practical Electricity – EL 125, Introduction to Electronics – EL 135, Safety and Environment – GS 113, Introduction to Electricity – PH 119

NEW ENGLAND INSTITUTE OF TECHNOLOGY – total of 17 credits: Electrical Circuit Theory 1 – EET 110, Instruments and Basic Circuit Constructions – EET 111, EET 120 Electrical Circuit Theory 11, EET 121 Electrical Theory 11 Lab, EET 126 Digital Logic Circuits

GRAPHIC COMMUNICATIONS

HAGERSTOWN COMMUNITY COLLEGE – total of 3 credits: Computer Graphics – GDT112

JOHNSON AND WALES – total of 9 quarter credits: FIT 1000 Introduction to Computers, FIT 1010 Topics in Computers, CGRA3050 Desktop Publishing

HVAC

NORTHWESTERN OHIO UNIVERSITY – total of 6 credits, Service and Procedure 1 – HV101

NEW ENGLAND INSTITUTE OF TECHNOLOGY – total of 17 quarter credits: Basic Refrigeration – AH 110, Basic Refrigeration Electricity – AH 120, Basic Refrigeration Electricity Lab – AH 121

CUMBERLAND VALLEY CHAPTER OF THE ASSOCIATED BUILDERS AND CONTRACTORS – 1-year apprenticeship program

MARKETING

CENTRAL PENNSYLVANIA COLLEGE – total of 6 credits: Business Principles – BUS 100, Fundamentals of Selling – BUS 105

HAGERSTOWN COMMUNITY COLLEGE – total of 4 credits: Personal Selling – MGT 102, Customer Service – BUS 145

JOHNSON AND WALES – total of 9 quarter credits: Principles of Marketing – MRKT 1001, Principles of Professional Selling – MRKT 1011 **OR** Retailing – RTL 1005, Career Electric CAR 3999

MOUNTAIN STATE UNIVERSITY – total of 9 credits: 36 elected credits

HAGERSTOWN BUSINESS COLLEGE – total of 9 credits: BUS 221 Principles of Marketing and Advertising, BUS 222 PC Consumer Behavior

MASONRY

CUMBERLAND VALLEY CHAPTER OF THE ASSOCIATED BUILDERS AND CONTRACTORS – 1 year apprenticeship program

PLUMBING

CUMBERLAND VALLEY CHAPTER OF THE ASSOCIATED BUILDERS AND CONTRACTORS – 1-year apprenticeship Program

CHAMBERSBURG AREA SENIOR HIGH SCHOOL
511 SOUTH SIXTH STREET
CHAMBERSBURG PA 17201
(717) 261-3342
2010-2011

DR. JOSEPH PADASAK, Superintendent of Schools
DR. BARRY PURVIS, Principal
MR. STAN SHILLING, K-12 Counseling Supervisor
MRS. MARY L. MILLER, Registrar

ACCREDITATION:
Middle States Association of Secondary Schools and Colleges

COMMUNITY:
Population: School District – 50,000; Borough – 16,500 predominantly agricultural. Location in South Central PA; 3 area colleges

SCHOOL:
District organization: K-5, 2,2,3 – 8,000 students
Comprehensive high school grades 10-12 – 2,377 students (with grade 9 at Faust Junior High School); 2009 graduating class 620 students; Faculty – 135

GRADING SCALE:

A = 92 – 100	O =	Outstanding
	S =	Satisfactory (average attainment)
B = 83 – 91	U =	Unsatisfactory (failed)
C = 74 – 82	W =	Withheld (may be changed to a passing grade with completion of work)
D = 65 – 73	I =	Incomplete (course failed, 0 quality points)
	N=	Needs Improvement

ADVANCED PLACEMENT

LEVEL I (1.4)	**LEVEL II (1.2)**
AP English	Honors English
AP Calculus	9, 10, 11, 12
AP US History	Honors Chemistry
AP Eur. History	Honors Biology
AP Biology	Adv Communications
AP Chemistry	Probability & Statistics
AP Physics	Trigonometry
AP Studio Art	Pre-Calculus
AP Psychology	Honors French I, II, III
AP Latin	Honors German I, II, III
AP French	Honors Spanish I, II, III
AP German	Honors Latin I, II, III
AP Spanish	Music Theory
AP Statistics	Honors Physics
AP American Gov & Politics	Advanced Accounting
	Anatomy & Physiology
AP Macroeconomics	

RANK IN CLASS
Cumulative class rank is computed for each student at the end of 9th, 10th, 11th, and 12th grades. Ranking is weighted as described above.

Quality Point Average: A weighted and unweighted (starting 1999) are produced
QPA is determined by converting the letter grade from each of four marking periods to the following value A=4, B=3, C=2, D=1, F=0. These four numbers are added together and then divided by four. When weighted this number is then multiplied by its value.

All quality points are then added together and divided by the total credit value of those courses taken (this is determined by the number of times a course meets each week) during the year. A course that meets 45 minutes per day, 5 days/week for the year has a credit value of 1.0; if ½ of the year 0.5 value; if ¼ of the year 0.25 value.

ADVANCED SCHOOLING:
All Students
4 year college - 45%
2 year college - 12%
Military - 4%

STANDARDIZED TESTS:
SAT - Critical
Reading – 500 Math – 500 Writing – 484
ACT- Composite – 23.8

SCHOOL YEAR:
The school year is divided into two semesters. A semester is 18 weeks with 9-week reporting periods.

CAREER AND TECHNOLOGY CENTER OFFERINGS:
Participating in the Franklin County Career and Technology Center, comprised of six sending schools; two groups on an alternating semester schedule.

COUNSELING ORGANIZATION:
Counselors

Mr. Christopher Yohe	Senior Class	(A-K)
Ms. Maria Weinzierl	Senior Class	(L-Z)
Ms. Heidi Lebitz	Junior Class	(A-K)
Mrs. Alecia Garman	Junior Class	(L-Z)
Ms. Suzanne Eyer	Sophomore Class	(A-K)
Ms. Tracy Martin	Sophomore Class	(L-Z)

GRADUATION REQUIREMENTS:
23.50 credits for graduation – Grades 9-12

		Recommended College Preparatory (CP) Classes
All Students		
4.00	Credit Units English	Honors or CP English Grades 9-12
4.00	Credit Units Math	2 credit units of Algebra and 1 credit unit of Geometry and another Mathematics elective
3.00	Credit Units Science	Honors Biology or 9th grade Biology with Physics or Chemistry and another Science elective
3.50	Credit Units Social Studies	Early American History, CP World and CP American History/AP US History, Civics
.50	Units Wellness (4)	
6.50	Credit Units Electives	At least two years of one sequential foreign language
.25	Driver Ed Classroom	
.25	Speech	
23.5	Total Credits	

Credits are cumulative in grades 9-12; minimum credits for graduation 23.50 of which 17 must be in major subjects. In relation to the graduation requirements listed, electives make up the difference between these subjects and 23.5 credits required.

VARSITY SPORTS: Male – 11 Female-11

Academic-Eligibility Requirements

What are core courses?
For a definition of core courses, see page 8.
See your high-school's core-course list at www.ncaaclearinghouse.net.

DIVISION I 2005 THROUGH 2007

If you enroll in a Division I college between 2005 and 2007 and want to participate in athletics or receive an athletics scholarship, you must meet the following academic standards:

- Graduate from high school;
- Complete the 14 core courses listed below;
- Present a minimum required grade-point average in your core courses; and
- Achieve a combined SAT or ACT sum score that matches your core-course grade-point average in the grade point average and test score index on page 7.

14 Required Core Courses

- Four years of English;
- Two years of mathematics (algebra I or higher level);
- Two years of natural or physical science (including one year of lab science if offered by your high school);
- One extra year of English, mathematics or natural/physical science;
- Two years of social science; and
- Three years of extra core courses (from any category above, or foreign language, nondoctrinal religion or philosophy).

NOTE: Computer science courses can be used only if your high school grants graduation credit in mathematics or natural/physical science and the courses appear on your high-school's core-course list as a math or science course.

You will be a nonqualifier if you do not meet the academic requirements listed above. As a nonqualifier, you:

- May not participate in athletics competition or practice during your first year in college;
- May receive financial aid based only on need (not athletics-based financial aid) in your first year in college; and
- May play only three seasons (to earn a fourth season you must graduate before your fifth year of college).

DIVISION I 2008 AND LATER

If you enroll in a Division I college in 2008 or later and want to participate in athletics or receive an athletics scholarship, you must meet all NCAA requirements for 2005-2007 and have completed two additional core courses (new total of 16) as shown below:

16 Required Core Courses

- Four years of English;
- **Three** years of mathematics (algebra I or higher level);
- Two years of natural or physical science (including one year of lab science if offered by your high school);
- One extra year of English, mathematics or natural/physical science;
- Two years of social science; and
- **Four** years of extra courses (from any category above, or foreign language, nondoctrinal religion or philosophy)

DIVISION II 2005 AND LATER

If you enroll in a Division II college in 2005 or later and want to participate in athletics or receive an athletics scholarship, you must meet the following academic standards:

- Graduate from high school;
- Complete the 14 core courses listed below;
- Present a 2.000 grade-point average in your core courses; and
- Achieve a combined SAT score of 820 or a sum score of 68 on the ACT.

14 Required Core Courses

- Three years of English;
- Two years of mathematics (algebra I or higher level);
- Two years of natural or physical science (including one year of lab science if offered by your high school);
- Two extra years of English, mathematics or natural/physical science;
- Two years of social science; and
- Three years of additional courses (from any category above, or foreign language, nondoctrinal religion or philosophy).

NOTE: Computer science courses can be used only if your high school grants graduation credit in mathematics or natural/physical science and the courses appear on your high-school's core-course list as a math or science course.

You will be a partial qualifier if you do not meet the academic requirements listed above, but you have graduated from high school and meet one of the following:

- The specified minimum SAT or ACT score; or
- Completion of the required 14 core courses with a 2.000 grade-point average in your core courses.

As a partial qualifier, you:

- May practice with your team at its home facility;
- May receive an athletics scholarship during your first year;
- May not compete during your freshman year; and
- May compete in the four seasons remaining.

If you have not graduated from high school or have not presented the core-course grade-point average, SAT or ACT scores required for a qualifier, **you will be considered a nonqualifier.**

As a nonqualifier, you:

- May not participate in athletics competition or practice during your first year in college;
- May receive financial aid based only on need (not athletics-based financial aid) in your first year in college; and
- May play in four seasons.

DIVISION III

Contact your Division III college regarding its policies on financial aid, practice and competition.

WEB ADDRESS TO REGISTER:

www.ncaaclearinghouse.net

EDUCATIONAL PATHWAYS

The purpose of this program is to provide a fully integrated K through 12 curriculum-based process for all students. Educational Pathways fosters student motivation, career awareness, and career exploration with a focus on lifelong learning and decision-making.

Whether or not you reach your goals in life depends on how well you prepare for them and how badly you want them. You're eagles! Stretch your wings and fly to the sky.

Dr. Ronald McNair, physicist and mission specialist astronaut on the Space Shuttle Challenger

Choosing a Career…The Chambersburg Area Senior High School (Path) Way

About mid-year, the junior high school counselors meet with all eighth graders in small groups to accomplish the following goals:

- Identifying the students' natural aptitudes and developed abilities
- Identifying the students' interests
- Teaching the four career clusters that comprise the pathways system
- Synthesizing this information for realistic career/academic planning

In 8th grade, students complete a required Careers Course. During this class, they complete a career assessment program called Career Scope. Career Scope offers a broad range of career assessment measures including a summary report for students and parents to use when deciding on an Educational Pathway.

Students use this experience to declare not only the educational pathway they intend to follow but also the academic path (traditional or technical) that is associated with a particular career. Students revisit this yearly selection process as freshmen, sophomores, and juniors.

The following pages provide examples of career titles that are associated with particular clusters and academic paths. The Chambersburg Area School District uses multiple resources to assess facts on careers, colleges and financial aid. The CASHS Career Center offers students access to computers with latest software systems for college and career information. Many printed materials are also available. In addition, the CASHS Career Center offers a web page that lists recommended web sites that are helpful in the career planning process.

GRADE 9

Traditional Academics

English:

English 9 **or**
CP English 9 **or**
Honors English 9

Social Studies:

Early American History

Mathematics:

Geometry
Algebra I
Algebra Supplement

Science:

Physical Science 9 **or**
CP Physical Science **or**
Honors Biology

World Language:

Honors Spanish I **or** II **or** Spanish I
Honors German I **or** II **or** German I
Honors Latin I **or** Honors Latin II

Wellness and Fitness:

Wellness & Fitness 9

Electives:

Art
Agriculture
Business
Ag Bio-Science

Family and Consumer Science
Music
Technology Education

Technical Academics

English:

English 9 **or**
CP English 9 **or**
Honors English 9

Social Studies:

Early American History

Mathematics:

Geometry
Algebra I
Algebra Supplement

Science:

Physical Science 9 **or**
CP Physical Science **or**
Honors Biology

World Language:

Spanish I **or** II
German I **or** II

Wellness and Fitness:

Wellness & Fitness 9

Electives:

Art
Agriculture
Business
Ag Bio-Science

Family and Consumer Science
Music
Technology Education

Pathways Career Option Examples
Fine Arts and Humanities

Traditional Academic Sequence
Actors
Architects
Athletes
Cinematographers
Clergy
Coaches
College Administrators
Editors
Educational Administration
Interpreters
Judges and Magistrates
Lawyers
Legislators
Librarians
Musicians
Newscasters and Analysts
Photographers
Professors
Radio Announcers
Reporters and Correspondents
Set Designers
Singers
Sportscasters
Teachers
Umpires and Referees
Vocational and Educational Counselors
Vocational Education Teachers
Web Designers
Writers

Technical Academic Sequence
Actors
Artists
Athletes
Bakers and Pastry Chefs
Barbers
Broadcast Technicians
Choreographers
Coaches
Compliance Officers
Dance Instructors
Dancers
Fashion and Textile Designers
Food Preparation Workers
Hairdressers
Interior Designers
Interpreters
Jewelers and Silversmiths
Landscape and Groundskeepers
Library Assistants
Magicians
Models
Musicians
Nursery Workers
Painters and Paperhangers
Paralegals
Photographers
Producers
Radio Announcers
Recording Engineers
Set Designers
Singers
Sport Instructors
Umpire/Referees
Welders (Artistic)
Woodworking Machiners

FINE ARTS AND HUMANITIES PATHWAY
Grade 10

Traditional Academics	*Technical Academics*
English:	*English*:
English 10 **or**	English 10 **or**
CP English 10 **or**	CP English 10 **or**
Honors English 10	Honors English 10
Social Studies:	*Social Studies*:
World History **or**	World History **or**
CP World History	CP World History
AP US History	AP US History
Mathematics:	*Mathematics*:
Algebra I **or**	Algebra I **or**
Geometry **or**	Geometry **or**
Algebra II	Algebra II
Science:	*Science*:
Honors Biology **or**	Honors Biology **or**
Biology **or**	Biology **or**
Honors Physics	Honors Physics
World Language:	*World Language*:
Spanish I **or** II **or** Honors Spanish I **or** II **or** III	Spanish I **or** II
German I **or** German II **or** Honors German I **or** II **or** III	German I **or** II
Honors French III or AP French	Honors Latin I **or** II
Honors Latin I **or** II **or** III	
	Wellness and Fitness:
Wellness and Fitness:	Wellness & Fitness
Wellness & Fitness	
Electives:	*Electives*:
Refer to electives chart	Refer to electives chart

***** Higher level courses available based on prerequisite

FINE ARTS AND HUMANITIES PATHWAY
Grade 11

Traditional Academics	*Technical Academics*
English:	*English*:
Speech **and**	Speech **and**
English 11 **or**	English 11 **or**
CP English 11 **or**	CP English 11 **or**
Honors English 11	Honors English 11
Social Studies:	*Social Studies*:
American History **or**	American History **or**
CP American History	CP American History
Mathematics:	*Mathematics*:
Geometry **or**	Geometry **or**
Algebra II **or**	Algebra II **or**
Trigonometry **or**	Trigonometry **or**
Probability & Statistics **or**	Probability & Statistics **or**
Pre-calculus *****	Pre-calculus *****
College Algebra*****	College Algebra*****
College Calculus*	College Calculus*
Science:	*Science*:
Honors Physics **or** Physics **or**	Biology **or**
Honors Chemistry **or** Chemistry	Physics **or**
Biology	Chemistry **or**
Electives	Electives
World Language:	*World Language*:
Spanish I **or** II **or** Honors Spanish I **or** II **or** III **or AP ***	Spanish I **or** II **or** Honors Spanish I **or** II
German I **or** II **or** Honors German I **or** II **or** III **or** AP *****	German I **or** II **or** Honors German I **or** II
Honors French III **or** II AP French*****	Honors Latin I **or** II
Honors Latin I **or** II **or** III **or** AP *****	
Wellness and Fitness:	*Wellness and Fitness*:
Wellness & Fitness **and**	Wellness & Fitness **and**
Driver's Education Classroom	Driver's Education Classroom
Electives:	*Electives*:
Refer to electives chart	Refer to electives chart

***** Higher level courses available based on prerequisites

FINE ARTS AND HUMANITIES PATHWAY
Grade 12

Traditional Academics	Technical Academics
English:	English:
English 12 or CP English 12 or Honors English 12 or AP English	English 12 or CP English 12 or Honors English 12
Social Studies:	Social Studies:
Civics Elective (based on graduation requirements and pathway)	Civics Elective (based on graduation requirements and pathway)
Mathematics:	Mathematics:
AP Statistics* or AP Calculus* or Pre-Calculus* or Probability & Statistics or Trigonometry or Algebra II or Geometry College Algebra* College Calculus*	AP Statistics* or AP Calculus* or Pre-Calculus* or Probability & Statistics or Trigonometry or Algebra II or Geometry College Algebra* College Calculus*
Science:	Science:
Elective (based on graduation requirements and pathway)	Elective (based on graduation requirements and pathway)
World Language:	World Language:
Elective (based on graduation requirements)	Elective (based on graduation requirements)
Wellness and Fitness:	Wellness and Fitness:
Wellness & Fitness	Wellness & Fitness
Electives:	Electives:
Refer to electives chart	Refer to electives chart

** Higher level courses available based on prerequisites*

J. Frank Faust – Grade 9
FINE ARTS AND HUMANITIES ELECTIVES

Choose electives relevant to your career interest in your educational pathway. Be sure to read the course descriptions and meet course prerequisites.

Agriculture Education
V101 Greenhouse and Nursery
V102 Landscaping for Fun and Profit
V103 Introduction to Animal/Wildlife Science

Art
A101 Art Exploration
A102 Advanced Art
A103 Art Production & Services

Family and Consumer Science
C100 Food for You
C102 Interior Design
C103 Child Development

Music
J101 Introduction to Piano
J102 Music 9
J103 Musicianship*
J104 Guitar*

Technology Education
T101 Intro to Wood Technology
T102 Intro to Power & Energy
T103 Intro to Graphic Communications
T104 Intro to Computer Assisted Drawing and Technical Design

**indicates prerequisite*

Chambersburg Area Senior High School
FINE ARTS AND HUMANITIES ELECTIVES

Choose electives relevant to your career interest in your educational pathway. Be sure you read the course descriptions and meet course prerequisite.

Agriculture Department

G105 Ornamental Horticulture/Spring Greenhouse
G107 Floriculture and Design

Art Department

A100 Design and Communication
A101 Drawing and Painting I
A102 Drawing and Painting II
A103 3-D Design
A104 Portfolio Art
A107 Fundamentals of Clay
A500 AP Studio Art

Business Department

B117 R.E.A.L. (Entrepreneurship) (.50 credit)
B109 Personal Financial Management (.50 credit)
B103 Essential Software Applications (.50 credit)
B106 Interactive Media
B112 Y.E.S.
B118 Business Law

English Department

E106 Creative Writing
E108 Dramatics I (.50 credit)
E109 Dramatics II
E112 Newspaper Journalism
B111 Yearbook Journalism
E110 Intro to Video (.50 credit)
E107 Modern Fiction (.50 credit)
E303 Advanced Communications

Music Department

J102 Music Technology
J105 Band
J107 Jazz Band I
J108 Jazz Band II
J109 Orchestra
J103 Glee Club
J100 Music History
J101 Music Sight-Singing Dictation

Social Studies Department

H104 Economics (.50)
H106 Psychology (.50)
H105 Sociology (.50)
H502 AP Psychology
H504 AP Macro Economics

Technology Department

T100 Wood Technology I (.50 credit)
T101 Wood Technology II (.50 credit)
T109 Computer Design in the Media (.50)
T105 Computer Drawing & Technical Design (.50)
T106 3-D Solid Modeling (.50)
T107 Residential or Commercial Architecture
T110 Photography (.50 credit)

Family and Consumer Science

C107 Culinary I
C108 Culinary II
C109 Fashion Merchandising

CAREER-TECHNOLOGY PROGRAMS

Cosmetology
Culinary Arts
Landscaping & Horticulture
Graphic Communications

(See Course Master Listing for Course Numbers)

Pathways Career Option Examples
Business and Technology

Traditional Academic Sequence
Accountants and Auditors
Athletic Managers
Budget Analysts
Caterers
Computer Operators
Construction Managers
Cost Estimators
Credit Analysts, Financial
Education Administrators
Employment Interviews
Financial Managers
General Managers and Top Executives
Health Care Facility Administrators
Health Club Managers
Hotel Mangers and Assistants
Industrial Engineers
Insurance Agents and Brokers
Loan Officers and Counselors
Lobbyists
Management Analysts and Consultants
Operations Manager
Personnel Managers
Public Administrators
Purchasing Managers
Real Estate Sales Agents & Brokers
Restaurant & Food Service Managers
Sales Engineers
Sales Representatives
Statistical Clerks
Tax Examiners, Collectors, And/or Revenue Agents
Tax Preparers
Transportation Managers
Underwriters
Vocational Education Teachers
Web Designer
Wholesale and Retail Buyers

Technical Academic Sequence
Advertising Clerks/Agents
Bailiffs
Bank Tellers
Bookkeeping, Accounting and Auditing Clerks
Cashiers
Caterers
Chauffeurs
Clerical Educational Assistants
Computer Operators
Construction Manager
Cost Estimators
Court Clerks
Directory Assistance Operators
Door-to-door Salespeople
Drivers/Sales Workers
Employment Interviewers
Farm Managers
Fish and Game Wardens
Funeral Directors
General Office Clerks
Hotel Managers
Insurance Agents, Brokers, Clerks
Meter Readers, Utilities
Personal Shoppers
Police Patrol Officers
Postmasters
Private Child Care Workers
Purchasing Agents/Managers
Real Estate Appraisers/Brokers/Agents
Receptionists/Secretaries
Restaurant/Food Service Manager
Retail Sales People
Sales Representatives
Secretaries
Stenographers
Tax Preparers
Telephone Operators
Travel Agents/Clerks
Typists
Waiters and Waitresses
Web Designer
Word Processing Specialists

BUSINESS AND TECHNOLOGY PATHWAY
Grade 10

Traditional Academics	*Technical Academics*
English:	*English*:
English 10 **or**	English 10 **or**
CP English 10 **or**	CP English 10 **or**
Honors English 10	Honors English 10
Social Studies:	*Social Studies*:
World History **or**	World History **or**
CP World History	CP World History
Mathematics:	*Mathematics*:
Algebra I **or**	Algebra I **or**
Geometry **or**	Geometry **or**
Algebra II	Algebra II
Science:	*Science*:
Honors Biology **or**	Honors Biology **or**
Biology **or**	Biology **or**
Honors Physics	Honors Physics **or**
World Language:	*World Language*:
Spanish I **or** II **or** Honors Spanish I **or** II **or** III	Spanish I **or** II
German I **or** II **or** Honors German I **or** II **or** III	German I **or** II
Honors Latin I **or** II **or** III	Honors Latin I **or** II
Wellness and Fitness:	*Wellness and Fitness*:
Wellness & Fitness	Wellness & Fitness
Electives:	*Electives*:
Refer to electives chart	Refer to electives chart

***** Higher level courses available based on prerequisite

BUSINESS AND TECHNOLOGY PATHWAY
Grade 11

Traditional Academics	*Technical Academics*
English:	*English*:
Speech **and**	Speech **and**
English 11 **or**	English 11 **or**
CP English 11 **or**	CP English 11 **or**
Honors English 11	Honors English 11
Social Studies:	*Social Studies*:
American History **or**	American History **or**
CP American History	CP American History
AP US History	AP US History
Mathematics:	*Mathematics*:
Geometry **or**	Geometry **or**
Algebra II **or**	Algebra II **or**
Trigonometry **or**	Trigonometry **or**
Probability & Statistics **or**	Probability & Statistics **or**
Pre-Calculus *****	Pre-Calculus *****
College Algebra	College Algebra
Science:	*Science*:
Honors Physics **or** Physics **or**	Biology **or**
Honors Chemistry **or** Chemistry **or**	Physics **or**
Biology	Chemistry
Electives	Electives
World Language:	*World Language*:
Spanish I **or** II **or** Honors Spanish I **or** II **or** III **or** AP	Spanish I **or** II **or** Honors Spanish I **or** II
German I **or** II **or** Honors German I **or** II **or** III **or** AP	German I **or** II **or** Honors German I **or** II
Honors French III **or** AP French	Honors Latin I **or** II **or** III
Honors Latin I **or** II **or** III **or** AP	
Wellness and Fitness:	*Wellness and Fitness*:
Wellness & Fitness **and**	Wellness & Fitness **and**
Driver's Education Classroom	Driver's Education Classroom
Electives:	*Electives*:
Refer to electives chart	Refer to electives chart

*Higher level courses available based on prerequisites

BUSINESS AND TECHNOLOGY PATHWAY
Grade 12

Traditional Academics	*Technical Academics*
English:	*English*:
English 12 **or**	English 12 **or**
CP English 12 **or**	CP English 12 **or**
Honors English 12	Honors English 12
AP English	
Social Studies:	*Social Studies*:
Civics	Civics
Elective (based on graduation requirements and pathway)	Elective (based on graduation requirements and pathway)
Mathematics:	*Mathematics*:
AP Statistics* **or**	AP Statistics* **or**
AP Calculus* **or**	AP Calculus* **or**
Pre-Calculus* **or**	Pre-Calculus* **or**
Probability and Statistics **or**	Probability and Statistics **or**
Trigonometry **or**	Trigonometry **or**
Algebra II **or**	Algebra II **or**
Geometry	Geometry
College Algebra*	College Algebra*
College Calculus*	College Calculus*
Science:	*Science*:
Elective (based on graduation requirements and pathway)	Elective (based on graduation requirements and pathway)
World Language:	*World Language*:
Elective (based on graduation requirements)	Elective
Wellness and Fitness:	*Wellness and Fitness*:
Wellness & Fitness **or**	Wellness & Fitness **or**
Elective Wellness	Elective Wellness
Electives:	*Electives*:
Refer to electives chart	Refer to electives chart

***** Higher level courses available based on prerequisites

J. Frank Faust – Grade 9

BUSINESS AND TECHNOLOGY ELECTIVES

Choose electives relevant to your career interest in your educational pathway. Be sure to read the course descriptions and meet course prerequisites.

Agriculture Education

V102 The Art and Science of Landscape

Business

B101 Building on Basics: Tools of the Computer
B102 Dollars & Sense: Teen Finance
B103 Mystery Behind the Machine – Internet & Computing

Family and Consumer Science

C100 Food For You

Technology Education

T103 Intro to Graphic Communications
T104 Intro to Computer Assisted Drawing and Technical Design

Chambersburg Area Senior High School

BUSINESS AND TECHNOLOGY ELECTIVES

Choose electives relevant to your career interest in your educational pathway. Be sure to read the course description and meet course prerequisite.

Business Dept

B115 Office Management and Technology (.50 credit)
B100 Accounting I w/Computer Applications
B101 Accounting II w/Computer Applications
B103 Essential Software Applications (.50 credit)
B104 Power of MS Word
B105 Inside Microsoft Office
B106 Interactive Media
B300 Accounting III/Computer Applications
B118 Business Law
B107 Business and Financial Management
B110 (A+) Computer Repair
M103 Computer Programming
B108 Notemaking/Superwrite (.50 credit)
B102 Computer Keyboarding Applications (.50 credit)
B109 Personal Financial Management (.50 credit)
B112 Y.E.S. (.50 credit)

Technology Dept

T103 Manufacturing and Enterprise (.50 credit)
T104 Power & Energy (.50 credit)
T109 Computer Graphic Design in the Media (.50 credit)
T105 Computer Drawing and Technical Design (.50 credit)
T106 3-D Solid Modeling (.50 credit)
T107 Residential Architectural Drawing
T108 Commercial Design Architect
T110 Photography (.50 credit)
T111 Electricity/Electronics (.50 credit)
T112 Human Biotechnology (.50 credit)
T113 Automation/Robotics (.50 credit)

Family & Consumer Science Dept

C101 Family Nutrition
C107 Culinary I
C108 Culinary II
C109 Fashion Merchandising

Agriculture Dept

G112 Agribusiness for College Credit
G115 Leadership and the Business of Agriculture
G114 Small Animal Care and Management

Science Dept

S104 Environmental Science

CAREER TECHNOLOGY PROGRAMS

Culinary Arts
Drafting/CAD
Basic Networking (Network +)
Electronics
Distribution Technology
Marketing I
Advanced Networking (CISCO)
Landscaping & Horticulture
Graphic Communications

(See Course Master Listing for Course Numbers)

ELECTIVE DETAIL FOR BUSINESS AND TECHNOLOGY PATHWAY
Accounting Concentration

10th Grade	*Traditional Academics*	*Technical Academics*
	Accounting I & or Computer Keyboarding Applications	*Accounting I and Power of MS Word*
		And choose one elective from elective chart
11th Grade	Accounting II & Inside Microsoft Office	Accounting II & Inside Microsoft Office
	And choose one elective from Elective Chart	And choose two electives from elective chart
12th Grade	Accounting III with Computer Applications & Business Law	Accounting III with Computer Applications & Business Law
	And choose one elective from Elective Chart	May choose electives from Elective Chart

ELECTIVE DETAIL FOR BUSINESS AND TECHNOLOGY PATHWAY
Business/Information Technologies Concentration

10th Grade	*Traditional Academics*	*Technical Academics*
	Computer Keyboarding Applications or Essential Software Applications	Power of MS Word & Accounting I
	Add choose one elective from Elective chart	And choose one elective from elective chart
11th Grade	Power of MS Word or Inside Microsoft Office	Inside Microsoft Office
	And choose one elective from Elective Chart	And choose two electives from elective chart
12th Grade	Inside Microsoft Office or Interactive Business Law	Business Law Office Management & Technology
	And choose electives from Elective Chart	And choose electives from Elective Chart

ELECTIVE DETAIL FOR BUSINESS AND TECHNOLOGY PATHWAY
Computer Information Management Concentration

10th Grade	*Traditional Academics*	*Technical Academics*
	A+ Microcomputer Repair & Power of MS Word or Computer Keyboarding Applications	*A+ Microcomputer Repair and Power of MS Word*
	Add choose one elective from Elective chart	And choose one elective from elective chart
11th Grade	Inside Microsoft Office	Inside Microsoft Office
	And choose one elective from Elective Chart	And choose two electives from elective chart
12th Grade	Interactive	C++ Computer Programming
	And choose electives from Elective Chart	May choose electives from Elective Chart

Pathways Career Option Examples
Engineering/Industrial

Traditional Academic Sequence
Aerospace Engineers
Agricultural Engineers
Architects
Astronomers
Chemical Engineers
Chemical Technicians
Chemists
Civil Engineers
Computer Systems Analysts
Electrical & Electronic Engineers
Geophysicists
Industrial Engineers
Landscape Architects
Market Research Analysts
Mathematical Scientists
Mechanical Engineers
Nuclear Engineers
Operations Research Analysts
Petroleum Engineers
Physicists
Statisticians
Surveyors and Mapping Scientists
Transportation Inspectors
Vocational Education Teachers
Web Designers

Technical Academic Sequence
Air Traffic Controllers
Aircraft Mechanics
Automobile Mechanics
Bookkeeping /Accounting Clerks
Broadcast Technicians
Cabinetmakers
Carpenters
Chefs
Construction Managers/Supervisors
Cost Estimators
Dental Laboratory Technicians
Drafters
Drivers/Sales Workers
Electricians
Fire Inspectors
Heat, Air Conditioning, & Refrigeration Technicians
Job Printers
Lathers
Locksmiths and Safe Repairers
Machinists
Medical Assistance
Meter Readers, Utilities
Millwrights
Musical Instrument Repairers and Tuners
Nuclear Medicine Technologists
Office Machine Services
Opticians
Painters and Paperhangers
Photographers
Plumbers/Pipe fitters
Power Reactor Operators
Precision Instrument Makers
Purchasing Agents
Surveying Technicians
Tool and Die Makers
Vocational Education Teachers
Web Designers

ENGINEERING AND INDUSTRIAL PATHWAY
Grade 10

Traditional Academics	*Technical Academics*
English:	*English*:
English 10 **or**	English 10 **or**
CP English 10 **or**	CP English 10 **or**
Honors English 10	Honors English 10
Social Studies:	*Social Studies*:
World History **or**	World History **or**
CP World History	CP World History
Mathematics:	*Mathematics*:
Algebra I **or**	Algebra I **or**
Geometry **or**	Geometry **or**
Algebra II	Algebra II
Science:	*Science*:
Honors Biology **or**	Honors Biology **or**
Biology **or**	Biology **or**
Honors Physics	Honors Physics **or**
World Language:	*World Language*:
Spanish I **or** II **or** Honors Spanish I **or** II **or** III	Spanish I **or** II **or** Honors Spanish I **or** II
German I **or** II **or** Honors German I **or** II **or** III	German I **or** II **or** Honors German I **or** II
Honors Latin I **or** II **or** III	Honors Latin I **or** II **or** III
Wellness and Fitness:	*Wellness and Fitness*:
Wellness & Fitness	Wellness & Fitness
Electives:	*Electives*:
Refer to electives chart	Refer to electives chart

***** Higher level courses available based on prerequisites

ENGINEERING AND INDUSTRIAL PATHWAY
Grade 11

Traditional Academics	*Technical Academics*
English:	*English*:
Speech **and**	Speech **and**
English 11 **or**	English 11 **or**
CP English 11 **or**	CP English 11 **or**
Honors English 11	Honors English 11
Social Studies:	*Social Studies*:
American History **or**	American History **or**
CP American History	CP American History
AP US History	AP US History
Mathematics:	*Mathematics*:
Geometry **or**	Geometry **or**
Algebra II **or**	Algebra II **or**
Trigonometry **or**	Trigonometry **or**
Probability & Statistic **or**	Probability & Statistics **or**
Pre-Calculus *****	Pre-Calculus *****
Science:	*Science*:
Honors Physics **or** Physics **or**	Biology **or**
Honors Chemistry **or** Chemistry	Physics **or**
Biology	Chemistry
Electives	Electives
World Language:	*World Language*:
Spanish I **or** II **or** Honors Spanish I **or** II **or** III **or** AP *****	Honors Spanish I **or** II **or** Spanish I **or** II
German I **or** II **or** Honors German I **or** II **or** III **or** AP*****	Honors German I **or** II **or** German I **or** II
Honors French III **or** AP French*****	Honors French III or AP*
Honors Latin I **or** II **or** III **or** AP Latin*****	Honors Latin I **or** II **or** III
Wellness and Fitness:	*Wellness and Fitness*:
Wellness & Fitness **and**	Wellness & Fitness **and**
Driver's Education Classroom	Driver's Education Classroom
Electives:	*Electives*:
Refer to electives chart	Refer to electives chart

*Higher level courses available based on prerequisites

ENGINEERING AND INDUSTRIAL PATHWAY
Grade 12

Traditional Academics	*Technical Academics*
English:	*English*:
English 12 **or**	English 12 **or**
CP English 12 **or**	CP English 12 **or**
Honors English 12 **or**	Honors English 12
AP English	
Social Studies:	*Social Studies*:
Civics	Civics
Elective (based on graduation requirements and pathway)	Elective (based on graduation requirements and pathway)
Mathematics:	*Mathematics*:
AP Statistics* **or**	AP Statistics* **or**
AP Calculus* **or**	AP Calculus* **or**
Pre-Calculus* **or**	Pre-Calculus* **or**
Probability & Statistics **or**	Probability & Statistics **or**
Trigonometry **or**	Trigonometry **or**
Algebra II **or**	Algebra II **or**
Geometry	Geometry
College Algebra*	College Algebra*
College Calculus*	College Calculus*
Science:	*Science*:
Elective (based on graduation requirements and pathway)	Elective (based on graduation requirements and pathway)
AP Science Electives	
World Language:	*World Language*:
Elective (based on graduation requirements and pathway)	Elective (based on graduation requirements and pathway)
Wellness and Fitness:	*Wellness and Fitness*:
Wellness & Fitness	Wellness & Fitness
Electives:	*Electives*:
Refer to electives chart	Refer to electives chart

***** Higher level courses available based on prerequisites

J. Frank Faust – GRADE 9
ENGINEERING AND INDUSTRIAL ELECTIVES

Choose electives relevant to your career interest in your educational pathway. Be sure to read the course descriptions and meet course prerequisites.

Agriculture Education
V102 The Art and Science of Landscape

Business
B101 Building on Basics: Tools of the Computer
B102 Dollars & Sense: Teen Finance
B103 Mystery Behind the Machine – Internet & Computing

Technology Education
T101 Introduction to Wood Technology
T102 Intro to Power & Energy
T103 Intro to Graphic Communications
T104 Intro to Computer Assisted Drawing and Technical Design

Chambersburg Area Senior High School
ENGINEERING AND INDUSTRIAL ELECTIVES

Choose electives relevant to your career interest in your educational pathway. Be sure to read the course descriptions and meet course prerequisite.

Technology Dept

T100 Wood Technology I (.50 credit)
T101 Wood Technology II (.50 credit)
T103 Manufacturing and Enterprise (.50 credit)
T104 Power & Energy (.50 credit)
T105 Computer Drawing and Technical Design (.50 credit)
T106 3-D Solid Modeling (.50 credit)
T107 Residential Architectural Drawing
T108 Commercial Design Architect
T109 Computer Graphic Design (.50 credit)
T110 Photography (.50 credit)
T111 Electricity & Electronics (.50 credit)
T112 Human Biotechnology (.50 Credit)
T113 Automation and Robotics Technology (.50 credit)

Agriculture Dept.

G114 Small Animal Care and Mgmt. (.50 credit)
G115 Leadership and the Business of Agriculture
G116 Welding Technology I (.50 credit)
G117 Welding Applications II (.50 credit)
G118 Small Engine Theory and Repair (.50 credit)
G126 Irrigation Technology/Soil & Water Management (.50 credit)

Science Dept.

S104 Environmental Studies
S502 AP Physics
S501 AP Chemistry

Math Dept.

M502 AP Statistics
M500 AP Calculus
M303 College Algebra
M304 College Calculus

Business Dept.

B100 Accounting I w/Computer Applications
B101 Accounting II w/Computer Applications
B103 Essential Software Applications (.50 credit)
B106 Interactive Media
B117 R.E.A.L. Entrepreneurship (.50 credit)
B109 Personal Finance Management (.50 credit)
B110 A+ Computer Repair
B112 Y.E.S.

CAREER TECH PROGRAMS

Plumbing Systems and Design
Electrical Occupations
Auto Body and Collision Repair
Automotive Technology
Welding
Carpentry
HVAC
Machining
Diesel Mechanics
Masonry and Building Technology
Pre-Engineering
Electrical Occupations
Landscaping & Horticulture

(See Master Course Listing for Course Numbers)

Pathways Career Option Examples
Health, Science and Human Services

Traditional Academics
Alcohol/Drug Abuse Counselors
Anesthesiologists
Astronomers
Athletic Trainers
Biological Scientists
Chemists
Chiropractors
Clergy
College/University Deans
Computer Systems Analysts
Dentists
Dietitians and Nutritionists
Farmers
Geologists
Gerontologists
Hearings Officers
Judges and Magistrates
Lawyers
Librarians
Loan Officers
Meteorologists
Occupational Therapists
Oceanographers
Optometrists
Pharmacists
Physical Therapists
Physician Assistants
Physicians and Surgeons
Police Detectives
Psychologists
Registered Nurses
Respiratory Therapists
Restaurant Managers
Social Workers
Statisticians
Tax Examiners
Veterinarians
Vocational and Educational Counselors

Technical Academics
Animal Breeders
Biological and Agricultural Food Technicians
Bus Drivers/Chauffeurs
Butchers and Slaughters
Child Care Workers
Clerical Supervisors
Correction Officers
Counter Clerks
Criminal Investigators
Dental Hygienists
Emergency Medical Technicians
Farmers
Fire Inspectors/Firefighters
Flight Attendants
Funeral Directors
Guards and Watch Guards
Hairdressers and Cosmetologists
Home Health Aides
Human Services Workers
Interpreters
Legislators
Library Assistants
Licensed Practical Nurses
Manicurists
Medical Assistants
Paralegals
Personal Shoppers
Pest Controllers and Assistants
Photographers
Physicians Assistants
Police Detectives
Postmasters
Radiation Therapy Technologists
Recreation Workers
Registered Nurses
Respiratory Therapists
Safety Engineers
School Bus Drivers
Sheriffs and Deputy Sheriffs
Waiters and Waitresses

HEALTH, SCIENCE, AND HUMAN SERVICES PATHWAY
Grade 10

Traditional Academics	*Technical Academics*
English:	*English*:
English 10 **or**	English 10 **or**
CP English 10 **or**	CP English 10 **or**
Honors English 10	Honors English 10
Social Studies:	*Social Studies*:
World History **or**	World History **or**
CP World History	CP World History
Mathematics:	*Mathematics*:
Algebra I **or**	Algebra I **or**
Geometry **or**	Geometry **or**
Algebra II	Algebra II
Science:	*Science*:
Honors Biology or Biology **or**	Honors Biology or Biology **or**
Honors Physics	Honors Physics
World Language:	*World Language*:
Spanish I **or** II **or** Honors Spanish I **or** II **or** III*****	Spanish I **or** II
German I **or** II **or** Honors German I **or** II **or** III*****	German I **or** II
Honors Latin I **or** II **or** III *****	Honors Latin I **or** II
Wellness and Fitness:	*Wellness and Fitness*:
Wellness & Fitness	Wellness & Fitness
Electives:	*Electives*:
Refer to electives chart	Refer to electives chart

***** Higher level courses available based on prerequisites

HEALTH, SCIENCE, AND HUMAN SERVICES PATHWAY
Grade 11

Traditional Academics
English:
Speech **and**
English 11 **or**
CP English 11 **or**
Honors English 11
Social Studies:
American History **or**
CP American History
AP US History
Mathematics:
Geometry **or**
Algebra II **or**
Trigonometry **or**
Probability & Statistics **or**
Pre-calculus *****
Science:
Honors Physics **or** Physics **or**
Honors Chemistry **or** Chemistry **or**
Biology
Elective
World Language:
Spanish I **or** II **or** Honors Spanish I **or** II **or** III **or** AP*****
German I **or** II **or** Honors German I **or** II **or** III **or** AP *****
Honors French III **or** AP French*****
Honors Latin I **or** II **or** III **or** AP*****
Wellness and Fitness:
Wellness & Fitness **and**
Driver's Education Classroom
Electives:
Refer to electives chart

Technical Academics
English:
Speech **and**
English 11 **or**
CP English 11 **or**
Honors English 11
Social Studies:
American History **or**
CP American History
AP US History
Mathematics:
Geometry **or**
Algebra II **or**
Trigonometry **or**
Probability & Statistics **or**
Pre-calculus *****
Science:
Biology **or**
Physics **or**
Chemistry **or**
Elective
World Language:
Spanish I **or** II **or** Honors Spanish I **or** II
German I **or** II **or** Honors German I **or** II
Honors French III **or** AP*
Honors Latin I **or** II **or** III
Wellness and Fitness:
Wellness & Fitness **and**
Driver's Education Classroom
Electives:
Refer to electives chart

***** Higher level courses available based on prerequisites

HEALTH, SCIENCE, AND HUMAN SERVICES PATHWAY

Grade 12

Traditional Academics	*Technical Academics*
English:	*English*:
English 12 **or**	English 12 **or**
CP English 12 **or**	CP English 12 **or**
Honors English 12 **or**	Honors English 12
AP English	
Social Studies:	*Social Studies*:
Civics	Civics
Elective (based on graduation requirements and pathway)	Elective (based on graduation requirements and pathway)
Mathematics:	*Mathematics*:
AP Statistics* **or**	AP Statistics* **or**
AP Calculus* **or**	AP Calculus* **or**
Pre-Calculus* **or**	Pre-Calculus* **or**
Probability & Statistics **or**	Probability & Statistics **or**
Trigonometry **or**	Trigonometry **or**
Algebra II **or**	Algebra II **or**
Geometry	Geometry
College Algebra*	College Algebra*
College Calculus*	College Calculus*
Science:	*Science*:
Elective (based on graduation requirements)	Elective (based on graduation requirements)
AP Science Elective	
Human Anatomy & Physiology	
World Language:	*World Language*:
Elective (based on graduation requirements). Language courses may be selected or a new language may be selected	Elective (based on graduation requirements). Language courses may be selected or a new language may be selected
Wellness and Fitness:	*Wellness and Fitness*:
Wellness & Fitness	Wellness & Fitness
Electives:	*Electives*:
Refer to electives chart	Refer to electives chart

***** Higher level courses available based on prerequisite

J. Frank Faust – Grade 9

HEALTH, SCIENCE AND HUMAN SERVICES ELECTIVES

Choose electives relevant to your career interest in your educational pathway. Be sure you read the course descriptions and meet course prerequisites.

Agriculture Education

V101 Greenhouse and Nursery
V102 The Art and Science of Landscape
V103 Introduction to Animal/Wildlife

Family and Consumer Science

C100 Food For You
C102 Interior Design
C103 Child Development

Science Education

V910 Ag-Bioscience

Chambersburg Area Senior High School

HEALTH, SCIENCE AND HUMAN SERVICES ELECTIVES

Choose electives relevant to your career interest in your educational pathway. Be sure to read the course descriptions and meet course prerequisite.

Agriculture Dept.

G100 Biotechnology of Animal & Plant Science
G101 CP Veterinary Science I
G103 CP Veterinary Science II
G107 Floriculture & Design (.50 credit)
G108 Forestry, Wildlife, Natural Resources Mgmt (.50 credit)
G115 Leadership for Agriculture

Family & Consumer Science Dept

C101 Family Nutrition
C102 Child Development/Parenting
C107 Culinary I
C108 Culinary II
C109 Fashion Merchandising

Social Studies Dept.

H106 Psychology
H502 AP Psychology
H105 Sociology

Business Dept

B103 Essential Software Application (.50 credit)
B104 Power of MS Word
B105 Inside Microsoft Office
B106 Interactive Media
B117 R.E.A.L. (Entrepreneurship) (.50 credit)
B109 Personal Financial Mgmt. (.50 credit)
B115 Office Management & Technology (.50 credit)
B112 Y.E.S.

Science Dept

S300 Honors Physics
S103 Earth Science
S302 Honors Chemistry
S105 Chemistry
S104 Environmental Studies
S303 Human Anatomy & Physiology
S500 AP Biology
S501 AP Chemistry
S502 AP Physics B

Technology Dept

T110 Photography (.50 credit)
T112 Human Biotechnology

Fitness & Wellness

W140 Strength Training

CAREER TECH PROGRAMS

Allied Health Careers
Cosmetology
Culinary Arts
Agricultural Mechanics

(See Course Master Listing for Course Numbers**)**

FRANKLIN COUNTY CAREER AND TECHNOLOGY CENTER (FCCTC)
EDUCATIONAL PATHWAY

There are no guarantees that a student will gain entrance into their first choice vocational program. These decisions are based on availability of space.

CONSTRUCTION
Carpentry
Electrical Occupations
Heating, Ventilating & Air Conditioning
Masonry and Building Technology
Plumbing Systems and Design

HEALTH & HUMAN SERVICES
Allied Health Careers
Cosmetology
Culinary Arts

MANUFACTURING
Machining
Pre-Engineering
Welding

SALES AND SERVICE
Distribution Technology
Landscaping & Horticulture
Marketing

TECHNOLOGY
Computer Technology
- Computer Maintenance & Repair A+
- Basic Networking
- Advanced Networking (CISCO)

TRANSPORTATION
Agricultural Mechanics
Auto Body Technology
Automotive Technology
Diesel Mechanics

ELECTRONICS

GRAPHIC COMMUNICATION

CAREER TECHNOLOGY – RECOMMENDED COURSE OF STUDY

Grade 9	Credits
English 9 Requirement	1.00
Early American History	1.00
Physical Science	1.00
Math Requirement	1.00
Physical Education	.50
Elective	.50
Electives	1.00

Math	1.00	**Grade 10**
CP English 10 Requirement	1.00	
CP World History	1.00	
Wellness & Fitness	0.50	
Driver Education	0.50	
		FCCTC Program 2.50
CP English 11	1.00	**Grade 11**
Science Requirement	1.00	
Math Requirement	1.00	
Wellness & Fitness	0.50	
Speech	0.50	
		FCCTC Program 2.50
CP English 12	1.00	**Grade 12**
CP American History	1.00	
Science Requirement	1.00	
Wellness & Fitness	0.50	
Civics	0.50	
		FCCTC Program 2.50

All students must remediate all failed classes during summer school to return to the Franklin County Career and Technology Center

FAUST PROGRAM OF STUDIES 2009-2010



GRADE 9

This section of the booklet pertains to Grade 9 students only

FAUST NINTH GRADE COURSES

Department Course Listings and Descriptions	Credit
Agriculture Education	
Greenhouse and Nursery	.50
The Art and Science of Landscape	.50
Introduction to Animal and Wildlife Science	.50
Art	
Advanced Art	.50
Art Exploration	.50
Art Productions & Services	.50
Business	
Building on Basics: Tools of the Computer	.50
Dollars & Sense: Teen Finance	.50
Mystery Behind the Machine – Internet & Computing	.50
English	
English Honors	1.0
CP English	1.0
English 9	1.0
Enhancement Courses	
LS Study Hall/Study Skills	.50
Family and Consumer Science	
Food For You	.50
Interior Design	.50
Child Development	.50
Fitness and Wellness	.50
Mathematics	
Geometry	1.0
Algebra I	1.0
Pre- Algebra	1.0
Music	
Introduction to Piano	.50
Music 9	.50
Musicianship	.50
Guitar	.50
Science	
Honors Biology	1.0
CP Physical Science	1.0
Physical Science	1.0
Ag. BioScience**	1.0
Social Studies	
Early American History	1.0
CP Early American History	1.0
Technology Education	
Introduction to Wood Technology	.50
Intro to Power & Energy	.50
Intro to Graphic Communications	.50
Intro to Computer Assisted Drawing & Technical Design	.50
World Languages	
French I/French Honors	1.0
German I/German Honors	1.0
Spanish I/Spanish Honors	1.0
Latin Honors	1.0

* All classes meet 5 times per week- Year Courses (1 credit) and Semester Courses (.5 credit**)**

** Elective

AGRICULTURE EDUCATION

GREENHOUSE AND NURSERY

V101 *.5 Credit*

PREREQUISITE: None

In this course students will learn the science and technology of growing plants including many hands on activities. Students will explore careers in the horticulture industry. This course will offer students the ability to complete various horticulture skills such as, floral designs and arrangements and bedding plant production. Students will propagate plants from seeds, cuttings and grafts. Students will develop greenhouse and nursery management skills. Each student will have the opportunity to participate in the FFA and the Supervised Agricultural Education Experience Program.

THE ART AND SCIENCE OF LANDSCAPE

V102 *.5 Credit*

PREREQUISITE: None

In this class students will learn that the landscaping industry is the fastest growing and most profitable industry in Agriculture. Students will explore careers in the landscaping industry. The course will offer students the ability to learn and grow many plant varieties used in landscaping. Students experience lessons in turf grass management, landscape design, construction and maintenance. Students will be exposed to equipment and supplies used in the landscaping industry. Each student will have the opportunity to participate in the FFA and the Supervised Agricultural Education Experience Program.

INTRODUCTION TO ANIMAL/WILDLIFE SCIENCE

V103 *.5 Credit*

PREREQUISITE: None

In this course students will learn the science of producing and managing domestic animal species such as dairy, livestock, horses, fish, honeybees, and poultry. Students will learn to identify breeds, quality animals, and management techniques. Pets and companion animals as well as identification and management of Pennsylvania wildlife are included in the course. The basic science and business of each area as well as career opportunities will be covered in each unit. Each student will have the opportunity to participate in the FFA and the Supervised Agricultural Experience Program.

ART DEPARTMENT

ART EXPLORATION

A101 *.5 Credit*

PREREQUISITE: Recommended student have a Grade of A or B in eighth grade Art.

This course is designed as a general overview of Fine Arts. The course will include drawing, painting, pastels, 3-D and multi-media projects. Students will be introduced to art history and art theory. We will explore the art of many cultures. Homework will be assigned and a textbook may be included in the experience. Students should finish the course with a mastery of tool usage and basic drawing/painting/design techniques. **This course is designed for the serious art student who is willing to complete outside assignments, be self-motivated and desires to excel in the Visual Arts.**

ADVANCED ART

A102 **.***5 Credit*

PREREQUISITE: Recommended student have a Grade of A or B in eighth grade Art / C in ninth grade Art

This course is designed to challenge creative individuals and is primarily for students interested in continuing their art studies through high school and beyond. Students will be introduced to areas of art & 3-D design that will be further developed at the high school level. Advanced drawing and design techniques will be taught and developed. Students will be assigned sketchbooks and will have weekly assignments. Course will focus on the creation of works of art and the perception and understanding of it. **This course is designed for the serious art student who is**

willing to complete outside assignments, be self-motivated and desires to excel in the Visual Arts.

ART PRODUCTIONS AND SERVICES

A103 *.5 Credit*

PREREQUISITE: Recommended student have a Grade of A or B in eighth grade/ C in ninth grade Art

This course will introduce students to and provide an exploration of practical uses for art knowledge in the real world and an overview of art-related careers. We will use technology, tools, machinery, and instruments that are necessary in the production of works of art. Course will touch on theater arts and stage design, graphic design, lettering and layout, computer graphics and photo manipulation, advertising/marketing skills, etc. **This course would be recommended to the student wishing to further his/her studies in art or one who is considering an art-related career. Outside assignments, testing, weekly reviews, and time devoted beyond regular scheduled class periods are all part of this course's demands.**

BUSINESS DEPARTMENT

BUILDING ON BASICS: THE TOOLS OF THE COMPUTER

B101 *.5 Credit*

PREREQUISITE: None

Learn how to use the computer to do Spreadsheets, Drawing, Charting, Web pages, Desktop Publishing and much more. All HandsOn! Create a Web page for your sport, club, local business or church. Prepare yourself now to see your name in print next year in the Trojan Times school newspaper. Develop your knowledge of the Microsoft Office Suite (Word, Excel, Publisher, Power Point and more.) This course is meant for all levels of computer users.

**FBLA – Future Business Leaders of America opportunities

DOLLARS AND SENSE: TEEN FINANCE

B102 *.5 Credit*

PREREQUISITE: None

This interactive course will develop your understanding of personal money management and financial planning skills along with how to "*Be Your Own Boss*". You will use fun, interactive, computer-based materials including retail business simulations. The class makes use of teamwork and group-oriented activities that will help you to develop your personal strengths and interpersonal skills. You will learn about *Living on Your Own, earning a Paycheck , Car Buying* and *Costs of Owning a Car, Using Credit Cards and Loans*, and *Running Your Own Business*. This class will benefit all students on a personal level and especially those who plan to enter the business world at some point in time. New hands on simulation"Virtual Business". Allows student to run their own business on the computer, from designing your store to selling your product.

THE MYSTERY BEHIND THE MACHINE: INTERNET AND COMPUTING

B103 *.5 Credit*

PREREQUISITE: None

This fun and fast paced course will develop your knowledge and skills required for basic computer hardware (ex. hard drive, motherboard, and video cards), software (ex. MS Windows), networks, and the Internet. Learn how all of the parts of a computer work together. Get yourself prepared for the *Internet and Computing Core Certification (IC³),* which is the world's first validated training and certification program for basic computing and Internet knowledge and skills. IC³ is a powerful credential to advancement in a career pathway or other certification programs offered at the High School. This course is currently being offered through Penn State. You can take it here at Faust for FREE!

ENGLISH DEPARTMENT

HONORS ENGLISH 9

E900 *(1.2 Weight)* *1 Credit*

PREREQUISITE: Recommended student have an "A" or "B" average in College Prep 8. College Prep English 8 is a prerequisite for Honors

Honors English 9 combines the studies of literature, grammar, composition (utilizing the writing process), and vocabulary to prepare the college-bound student for the demands of higher education. This course involves the independent reading of novels, completion of the Sadlier-Oxford vocabulary book, writing or numerous multi-paragraph essay projects, small and large group discussions, completion of literary study for both independent and class projects, presentation of oral interpretations, and the broad study of grammar, usage, and mechanics as it pertains to the preparation of Honors English 10. Students will be expected to complete no less than one research project. Expectations include but are not limited to the following: successfully passing (74%) a parts of speech test through independent study, completing all assigned homework, being prepared for class in all aspects, maintaining properly written notebook, completing all out-of-class reading and writing projects, and taking responsibility for doing all work.



CP ENGLISH 9

E901 *1 Credit*

PREREQUISITE: Recommended student have a "C" or better in CP English 8 or an "A" or "B" in English 8

College Preparatory English 9 emphasizes writing and grammar to prepare and enable the foreign language student to excel. Students will study various types of writing as well as the multi-paragraph essay, utilizing the writing process. In addition to oral presentations, students will read, interpret, and analyze various literary genres. Students will be expected to complete at least one research paper. Expectations include but are not limited to the following: successfully completing homework, vocabulary, writing assignments, tests, and quizzes on various literary genre as well as grammar and vocabulary, being prepared for class, and maintaining a properly written notebook.

ENGLISH 9

E902 *1 Credit*

PREREQUISITE: None

English 9 is designed for the student who wants to develop necessary skills to succeed in today's job market. Emphasis will be placed on reading, writing, usage, mechanics, and vocabulary. Utilizing the writing process, students will develop well-structured paragraphs and multi-paragraph essay. Numerous short stories, poems, plays, and at least one novel will be read. Students will research a topic and develop a one-page research paper.

FAMILY AND CONSUMER SCIENCE DEPARTMENT

FOOD FOR YOU

C100 *.5 Credit*

PREREQUISITE: None

This class is designed to assist students in learning more about nutrition which should lead to a healthier life. Students will learn more about accurate measurements and food preparation skills. Correct terminology, recipe reading, meal planning, and food sanitation procedures will be included.

INTERIOR DESIGN

C102 *.5 Credit*

PREREQUISITE: None

This course is designed to be an introduction to Interior Design. Students will become familiar with career choices and the education needed for this career. Types of housing, the influences on housing choices, the pros/cons of renting or buying a home will be explored. Students will learn basic terms, elements of design, and principles of design, color schemes, furniture styles and floor plans. Using this information, students will develop a portfolio including a floor plan, placement of template furniture, furniture and furnishings selection, and a color scheme.

CHILD DEVELOPMENT

C103 *.5 Credit*

PREREQUISITE: None

This course provides an introduction to the study of children from infancy to preschool years. Students will study the growth and development of children, parenting skills and importance of play. Some of the child development projects include parenting a RealCare Baby for a weekend, participating in child development lab (nursery school experience), becoming an author of a child's storybook, and designing a child's toy.

FITNESS AND WELLNESS

PHYSICAL EDUCATION

.5 Credit

PREREQUISITE: None

The Physical Education program is designed to increase the student's awareness and appreciation of cardiovascular health and fitness. Cardiovascular health and fitness are introduced through a variety of fitness activities and recreational games. Participation in these activities enhances the development of individual skills and creates a positive attitude towards a lifetime of physical activity. Some of these activities in the curriculum include: flag football, hockey, speedball, volleyball, basketball, wrestling, track and field, soccer, softball, pilates, tae-bo, yoga, ping-pong, dyna-band resistive exercises, weight-lifting, cardio-machines, (treadmill, bike, elliptical edge, rower, and various low organizational games.

ADAPTIVE PHYSICAL EDUCATION

.5 Credit

PREREQUISITE: None

Placement is based on physician referral and/or a team recommendation, consisting of principal, nurse, teacher and counselor.

This is a diversified program of developmental activities adapted to the interest, capacities and limitations of students, so that, they may safely engage in physical education program activities. Boys and girls unable to successfully participate in a regular activity program for physical, psychological or other reasons can successfully engage in programs specially designed to meet their individual needs.



MATHEMATICS DEPARTMENT

GEOMETRY

M940 *1 Credit*

PREREQUISITE: Recommended that student successfully completed Algebra I

Geometry provides students with experiences that deepen the understanding of two and three-dimensional objects and their properties. Deductive and inductive reasoning as well as investigative strategies in drawing conclusions are stressed. Properties and relationships of geometric objects include the study of: (1) points, lines, angles and planes; (2) polygons, with a special focus on quadrilaterals, triangles, right triangles and (3) circles. An understanding of proof and logic is developed.

ALGEBRA I

M930 *1 Credit*

This course focuses on the real number system, polynomials, first degree linear equations, linear inequalities in one variable, the Cartesian coordinate system, graphing linear equations by point plotting, polynomials and factoring, rational expressions and exponents, and problem solving.

MUSIC DEPARTMENT

INTRODUCTION TO PIANO

J101 *.5 Credit*

PREREQUISITE: None

Students will learn to play the piano from a beginner level. Within a given lesson, students will be able to progress at their own pace. Students will receive group and individual instruction while practicing individually on the keyboards with headsets. Students will participate in performance assessments and recitals. Students will also perform individually and in groups. Upon completion of this course, students will be able to play proficiently with both hands and read piano music. ***This course is not for experienced piano students.***

MUSIC 9

J102 *.5 Credit*

PREREQUISITE: None

Students will study music through the ages, world music, popular music, and learn to play the piano and write a melody.

Music through the ages – Students will create a "radio show" from a time period in history, play music and announce events from that time. Through this, students will learn what music was popular at a particular time.

World Music- Students will sing and play music of Latin America, African, African-American, Native American and Japanese cultures. Drumming and singing will be a large part of this.

Popular Music –Students will choose a style, artist, or group to research and present to the class.

Piano – Students will learn to play basic songs on the piano, using the keyboards, and will write their own melody.

Students will gain a broad understanding of many music topics in a largely participation-based class.

MUSICIANSHIP

J103 *.5 Credit*

PREREQUISITE: Recommended that students must have an applied concentration in school band, chorus, orchestra, or studying music privately (sing or play an instrument)

Students interested in continuing musical studies through and possibly beyond high school will benefit from this course. The course provides an introduction to music courses offered at CASHS.

Students will be introduced to music theory through the study of melody, rhythm, harmony, and basic compositional guidelines. The culminating project will be to write a basic melody with simple chord accompaniment. The students will use FINALE music notation software to print their song.

Sight-singing/Sight-reading will be introduced. Students will learn Solfeggio syllables (Do, Re, Mi…) to sight-read music with various intervals, rhythms, meters, and tonalities. Students will also be introduced to music history. Students will discover the characteristics of the four major musical time periods.

GUITAR

J104 *.5 Credit*

PREREQUISITE: Recommended that student must pass 8th grade general music with an "A".

Students will learn to play the guitar from a beginner and intermediate level. Within a given lesson, students will be able to progress at their own pace. Guitarists will receive group and individual instruction while practicing individually. Students will participate in performance assessments and recitals, performing individually and in groups. Upon completion of this course, students will be able to play proficiently using chords and individual treble clef notes in first and second position. Students will also gain an understanding of basic music theory applicable to the guitar.

FAUST BAND

J100 *.5 Credit*

PREREQUISITE: Recommended Audition

The Faust Band is combined for eighth and ninth grade band students. An audition is required to determine if students have the necessary musical skills to perform successfully in the Faust Band Program. The Band performs as a marching band (Tiger Band) in the fall and a concert band (Symphonic Winds) in the winter and spring. Band is scheduled as an academic class and performs a wide variety of music at concerts, home football games and area parades. Group lessons are required as a part of this music program

JAZZ BAND

J601 *.25 Credit*

PREREQUISITE: Recommended Instrumental Ability, Audition, Proper Instrumentation

Membership in the jazz band is determined by audition. Only those instruments used in such an ensemble are screened and students must show an above-average ability in reading, sight-reading, and overall ability.

FAUST ORCHESTRA

J300 *.25 Credit*

PREREQUISITE: Recommended Audition

Faust Orchestra is for string instrument students in Grades 8 and 9. It meets during period one of Days 2 and 4. The orchestra performs at the Christmas and spring concerts with the Faust chorus. Additional performances and activities may be planned and are at the discretion of the director.

SYMPHONY

J500 *.25 Credit*

PREREQUISITE: Recommended Audition

The Symphony is for string instrument students and select band students in grades 8 through 12. It performs two major concerts per year (fall and spring) and a 'pops" concert in March. Field trips for musical enrichment and additional performances are planned at the director's discretion. Rehearsal times are Thursday afternoons from 3:30 p.m. – 5:10 p.m. at CASHS.

CHORUS

J910 *.25 Credit*

PREREQUISITE: Recommended Audition

Faust Chorus is for students in grades 8 and 9. The chorus performs a winter concert and a spring concert. Students learn and perform a wide variety of music including Classical, Multicultural, Jazz, and Pop while gaining vocal and music reading skills.

ENHANCEMENT COURSES

LS STUDY HALL/STUDY SKILLS

S100 *.5 Credit*

This is a mandatory class for students who receive learning support services. Students will work with a learning support teacher to complete assignments and receive assistance with testing or review regular classroom curriculum. Also, students will receive assistance with study skills, test-taking strategies, and organizational assistance.

SCIENCE DEPARTMENT

HONORS BIOLOGY

S910 *(1.2 weight)* *1 Credit*

PREREQUISITE: Recommended that student completed Earth/Physical Science and Algebra I with at least a "C"

This rigorous study of Biology begins with a study on the nature of life, emphasizing cell



structure, function, and Biochemistry. Following this unit is a focus on Genetics, Microbiology, plant life and animal life. Common threads that bind the course together are Ecology and Chemistry concepts. The pacing and workload of the course is intense and demanding.

CP PHYSICAL SCIENCE

S901 *1 Credit*

PREREQUISITE: None

CP Physical science is a survey of Physics and Chemistry designed for the student who is planning on attending a two or four year college program. The purpose is to develop and use the scientific method in preparing, conducting and drawing conclusions for experiments. Students learn to manipulate and interpret mathematical procedures used in scientific data and analysis. Subjects include scientific measurements, force and motion, classification of matter, changes in matter, and various forms of energy.

PHYSICAL SCIENCE

S902 *1 Credit*

PREREQUISITE: None

Physical science is a survey of Physics and Chemistry. The purpose is to develop and use the scientific method in preparing, conducting and drawing conclusions for experiments. Students learn to manipulate and interpret mathematical procedures used in scientific data and analysis. Subjects include scientific measurements, force and motion, classification of matter, changes in matter, and various forms of energy.

AG-BIOSCIENCE

V910 *1 Credit*

PREREQUISITE: Recommended that any student who is scheduling for Algebra 1 or Geometry in Grade 9 can take this class.

This course is for students interested in the science of living things. Topics of study include: animal science, plant science, and natural resource science (wildlife, forestry, land, etc.) Experiments will develop each student's knowledge of the natural life cycles of our domesticated and wild animals as well as cultivated indoor and outdoor plants and wild plants. Many opportunities of leadership development and challenging course related competitive events are available for students in this course. *Students receive a science credit for this course supplementing the Physical Science requirement.*

SOCIAL STUDIES DEPARTMENT

CP EARLY AMERICAN HISTORY

H901 *1 Credit*

PREREQUISITE: Recommended that students must have above average English grades in eighth grade College Prep (CP) Early American History is a ninth grade social studies course that covers the same material as the Early American History course, but in greater detail. Students are



required to research selected topics and write about their research. Quizzes and tests have questions that require detailed writing. It is recommended that students taking CP Early American History have above average English grades in eighth grade.

EARLYAMERICAN HISTORY

H902 *1 Credit*

PREREQUISITE: None

Early American History is a ninth grade social studies course that will cover the rise of imperialism to 1914. Students will review the American Revolutionary War, nation building, westward expansion, and the Civil War. The course will conclude with Reconstruction and the 2nd Industrial Revolution that occurred in the late 1800's. Important inventions, and how they brought about changes in lifestyles from generation to generation, will be an important aspect to this course.

TECHNOLOGY EDUCATION DEPARTMENT

INTRODUCTION TO WOOD TECHNOLOGY

T101 *.5 Credit*

PREREQUISITE: None

Students will be introduced to the elements of working with wood media. Subjects will include the knowledge and safe use of hand tools and power equipment in a lab environment. Project lanning/development, knowledge of materials, pattern design, and methods of applied finishes are all elements of this course.

INTRO TO POWER & ENERGY

T102 *.5 Credit*

PREREQUISITE: None

Students will have a hands on introduction to power and energy sources. Energy sources from the past, present and future will be investigated. Students will also explore alternative sources of energy such as solar, wind, biomass and hydropower. They will gain an understanding of the importance and use of energy in our society. Student projects include electronic kits, small electric motors, design and construction of small steam generators.

INTRO TO GRAPHIC COMMUNICATIONS

T103 *.5 Credit*

PREREQUISITE: None

Computer graphic design and graphic arts are the focus of this class. Students will explore design and printing technologies including: computer graphic design, desktop publishing, digital photography, lithography, and screen-process printing. Developing computer graphic design skills using the Adobe Creative Suite of software will be emphasized. Graphic arts projects include printing T-shirts, license plates, mouse pads, pennants, flags and banners, stickers, personalized stationery, business cards and greeting cards. Advanced students can participate in "Tiger Prints", the Faust graphic arts club.

INTRO TO COMPUTER ASSISTED DRAWING AND TECHNICAL DESIGN

T104 *.5 Credit*

PREREQUISITE: None

An introductory technical drawing and design course where students learn how to create basic engineering and architectural drawings. Emphasis is placed on developing basic skills using AutoCAD software. Students will explore real world applications and apply modern design methods to solve technical problems. This course should be a prerequisite to Tech CAD I and the proposed 3-D Design CAD offered at the 10-12 grade level. This course is an excellent complement to all other Technology Education courses as well as the Interior Design course offered in Family and Consumer Science.

WORLD LANGUAGE DEPARTMENT

MODERN WORLD LANGUAGES: FRENCH, GERMAN, SPANISH

LEVEL 1 *1 Credit*

PREREQUISITE: Recommended B/C in CP English or A/B in English 8

This course introduces the student to the basic vocabulary and expressions, the rules of pronunciation, and the grammatical structures of the language. And introduction to the culture of the people is also covered.

HONORS LEVEL I *(1.2 weight) 1 Credit*

PREREQUISITE: Recommended A/B in C P English or "A" in English 8

This course introduces the student to the vocabulary and expressions, the rules of pronunciation, and the grammatical structures of the language. An introduction to the culture of the people is also covered. The course is designed to present the material in greater depth at a faster pace for the language learner who intends to continue language study during multiple years culminating in AP study.

HONORS LEVEL II *(1.2 weight) 1 Credit*

PREREQUISITE: Recommended at Least a "C" Average in Honors I

This course reviews the vocabulary and grammar learned in the first level of the language. Grammar and vocabulary are expanded through work with reading selections. More emphasis is placed on the student's reading and writing ability and the culture of the people is also stressed. The course is designed to present the material in greater depth at a faster pace for the language learner who intends to continue language study during multiple years culminating in AP study.

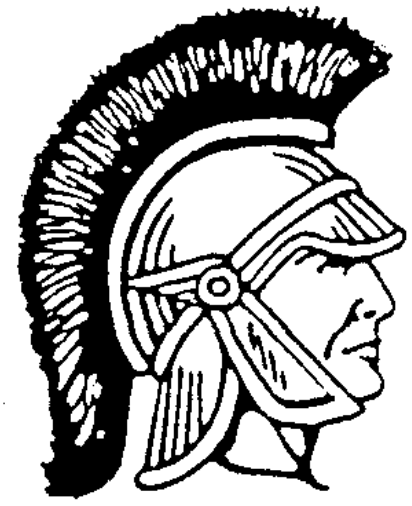
CLASSICAL LANGUAGES: LATIN

HONORS LATIN 1

F130 *(1.2 weight)* *1 Credit*

PREREQUISITE: Recommended A/B in CP English or "A" in English 8

Latin 1 emphasizes the basic grammar, vocabulary and culture of classical Latin. Translation and discussion involves daily life with a Roman family with some emphasis on Roman History and Mythology.



This section is for Chambersburg Area Senior High School students grades 10, 11 and 12

AGRICULTURE EDUCATION MASTER COURSE LISTING

Course No.	Course Title	Weighted Value	Credit Value	School Year
G100	Biotechnology of Animal & Plant Science	1.0	1.0	Every Year
G101	CP Veterinary Science I	1.0	0.5	Every Year
G103	CP Veterinary Science II	1.0	0.5	Every Year
G105	Ornamental Horticulture & Greenhouse	1.0	0.5	Every Year
G107	Floriculture and Design	1.0	0.5	Every Year
G108	Forestry, Wildlife, & Natural Resource Mgmt.	1.0	0.5	(2010-2011)
G111	Supervised Agriculture Ed Experience Project	1.0	1.0	Every Year
G114	Small Animal Care and Management	1.0	0.5	Every Year
G115	Leadership and the Business of Agriculture	1.0	1.0	Every Year
G116	Welding Technology I	1.0	0.5	(2010-2011)
G117	Welding Technology II	1.0	0.5	(2010-2011)
G118	Small Engine Theory and Repair	1.0	0.5	(2010-2011)
G124	Agriculture Mechanics and Technology	1.0	1.0	Every Year
G125	Agriculture Work Experience	1.0	1.0	Every Year
G126	Irrigation Technology/Soil & Water Management	1.0	0.5	Every Year
G127	Large Animal Science	1.0	1.0	(2010-2011)

SUGGESTED SEQUENCE IN AGRICULTURE EDUCATION

Traditional Academics	*Technical Academics*
Grade 9:	*Grade 9*:
Ag-Bioscience	Intro to Agriculture
Introduction to Hort. & Landscaping	Introduction to Hort. & Landscaping
Grade 10:	*Grade 10*:
Biology of Animal & Plant Science	Biotechnology of Animal & Plant Science
Agriculture Mechanics & Technology	Agriculture Mechanics and Technology
Floriculture and Design	Supervised Agriculture Ed Experience
Supervised Agriculture Ed Experience	
Grade 11:	*Grade 11*:
CP Veterinary Science I and II	Welding Technology I
Small Animal Care and Management	Welding Applications II
CP Veterinary Science	Small Engine Theory and Repair
Forestry, Wildlife & Natural Resource Mng.	
Grade 12:	*Grade 12*:
CP Veterinary Science I and/or II	Agriculture Technology & Construction
Forestry, Wildlife & Natural Resource Management **or**	
Small Animal Care and Management	

AGRICULTURE EDUCATION DEPARTMENT

BIOTECHNOLOGY OF ANIMAL AND PLANT SCIENCE

G100 Every Year 1 Credit

PREREQUISITE: Recommended for students interested in animals and plants. This course is designed for students interested in animals and plants and in pursuing a career in agricultural science. The students will study physiology, behavior, management practices, breed characteristics, and terminology of the animal industry. This course will also utilize the greenhouse and Agriculture science labs to explore the science, art, and technology of using plants and animals to benefit people. The course will address guidelines to career opportunities.

CP VETERINARY SCIENCE I

G101 Every Year .5 credit

PREREQUISITE: Algebra, Biology and/or Biotechnology of Animal & Plant Science Recommended for Major/Elective non-major interested in a career in animal health. This course is designed to explore careers in animal health by studying various physiological systems of animals, disease and parasites, pest control and effective treatment of health problems in animals. The course will address guidelines to career opportunities.

CP VETERINARY SCIENCE II

G103 Every Year .5 credit

PREREQUISITE: Veterinary Science I, Algebra, and Biology. Recommended for Major/Elective non-major interested in a career in animal science.

This course will investigate more deeply the anatomy and physiology of animal systems and diseases associated with the systems. Also studied will be specific pathogens and preventative management. The course will address guidelines to career opportunities.

LARGE ANIMAL SCIENCE

G127 2010-2011 School Year 1 Credit

PREREQUISITE: Recommended for students interested in large animals including horses. This course is designed to give students a competency in all phases of and types of livestock & horse production. Includes industry history, careers, safety, environmental considerations, and details of production management, feeding, health, genetics, and unique animal enterprises. Plus, addresses issues in food safety, and animal rights. Hands on experiences using the animal lab and science laboratory. The course will address guidelines to career opportunities.

ORNAMENTAL HORTICULTURE AND GREENHOUSE

G105 Every Year .5 Credit

PREREQUISITE: Recommended for students interested in plants.

This course is designed to utilize the labs to address the science, operations and management of plants for aesthetic uses. Nursery, greenhouse, landscaping and turf management, and production. The course will address guidelines to career opportunities.

FLORICULTURE AND DESIGN

G107 Every Year .5 Credit

PREREQUISITE: Recommended for students interested in flower production and designing floral arrangements.



Students will learn flower identification and how to construct corsages, boutonnieres, bud vases, centerpieces, symmetric and asymmetric designs, dish gardens, swags, wreaths, wall hangings, and dried arrangements. The course will address guidelines to career opportunities.

FORESTRY, WILDLIFE, AND NATURAL RESOURCE MANAGEMENT

G108 2010-2011 School Year .5 Credit

PREREQUISITE: Recommended for students interested in wildlife and forestry. This course is designed to appeal to the student who is interested in the environment and outdoor activities. Students will gain hands-on experience while learning the basics about practical management of forests, wildlife management, and natural resources such as land use, conservation, and land use planning. Careers in forestry, soil conservation, water resources, and wildlife management will be explored. The course will address guidelines to career opportunities.

SUPERVISED AGRICULTURAL EDUCATIONAL EXPERIENCE PROJECT

G111 Every Year 1 Credit

PREREQUISITE: None

This course is designed for the student wishing to study agricultural and environmental subjects in the agriculture community. A student may receive up to one credit per school year. A supervised agricultural experience project record program shall document 180 hours of experience in the agricultural industry, or a combination totaling 180 hours of project experience, community service and leadership activities. The course will address guidelines to career opportunities.

LEADERSHIP AND THE BUSINESS OF AGRICULTURE

G115 Every Year 1 Credit

PREREQUISITE: Juniors and Seniors Only

Earn a college credit through the Harrisburg Area Community College. Students can be part of the College in the High School program. They are able to earn three college credits that can be used at HACC, Delaware Valley, or transferable to any of the State

Universities and many other colleges. Learn the business view of agriculture as the produces are moved from farm to the fork. Businesses are looking for individuals who can work as a tem with good communication skills. Students enrolled in this course will use many skills for the FFA leadership activities as hands on labs.

As required by the CIS program, all students will be required to do the same assignments regardless of their choice to opt for the college credit. A one-time $35.00 HACC registration fee and a $50.00 course fee would be required to for the college credits.

SMALL ANIMAL CARE AND MANAGEMENT

G114 Every Year .5 Credit



Recommended for students interested in a career in small animals. This course is for students interested in the care and management of pets and companion animals. Study will include mammals, birds and fish. Hands on experiences will come from lab and projects to complete on home pets. Health, safety, feeding and careers will be emphasized with each specie studies. The course will address guidelines to career opportunities.

WELDING TECHNOLOGY I

G116 2010-2011 School Year .5 Credit

This course will provide interested students with the opportunity to gain skills in welding and metal work. Safe operation and functional skills will be taught. Tungsten Inert Gas (T.I.G.) and Metal Inert Gas (M.I.G.) welding techniques will be studied and practiced along with basic Arc welding and Oxy-Acetylene operation.

WELDING APPLICATIONS II

G117 2010-2011 School Year .5 Credit

PREREQUISITE: Welding Technology & Practices

This course will explore the career opportunities and integrate the use of metal working machines to design and construct projects.

SMALL ENGINE THEORY AND REPAIR

G118 2010-2011 .5 Credit

PREREQUISITE: Recommended for students interested in the safe operation of small engines widely used in the United States today. Hands-on laboratory work will study two-cycle and four-cycle motors and both gas and diesel powered.

AGRICULTURAL MECHANICS AND TECHNOLOGY

G124 Every Year 1 Credit

PREREQUISITE: None

This course is designed for students interested in gaining knowledge and skills in agricultural mechanics. The student will gain skills in safe operation and handling of equipment. The school agricultural shop will be used by the students to explore skills in carpentry, building construction, electricity, small engines, plumbing, masonry, welding and metal fabrication. The course will address guidelines to career opportunities.

AGRICULTURE WORK EXPERIENCE

G125 1 Credit

PREREQUISITE: Seniors Only

Upon successful completion of the necessary major course work and with staff approval, students may schedule a work or career exploration experience. Specific instruction about who qualifies for these experiences are given by the department. Students must contact a counselor or a member of the appropriate department for information about qualifications and the scheduling process. The course will address guidelines to career opportunities.

IRRIGATION TECHNOLOGY/SOIL AND WATER MANAGEMENT

G126 Every Year .5 Credit

PREREQUISITE: Successful completion of Algebra I

This course takes an in-depth look at an emerging career opportunity in agricultural engineering. Irrigation has been a crucial part of our history and continues to be a necessity in modern society. Irrigation is used



throughout the world to raise crops, grow and maintain quality turf grasses, and keep golf courses thick and green. More recently the demand for residential landscape irrigation systems has exploded, creating yet another career opportunity in agriculture. Students will learn how to use algebra and geometry to design residential irrigation systems, evaluate the natural hydrology of an area, and determine how human activities affect water and soil in that area. Students will evaluate water and soil management structures to determine if they are able to handle various precipitation events. Students will also use the Revised Universal Soil Loss Equation to look at how new cultivation techniques can reduce soil erosion. This is a growing pollution concern associated with areas such as the Chesapeake Bay Watershed. The course will address guidelines to career opportunities. This course applies to .5 of the required Math credits.

ART MASTER COURSE LISTING

Course No.	Course Title	Weighted Value	Credit Value
A100	Design And Communication	1.0	1.0
A101	Drawing and Painting I	1.0	1.0
A102	Drawing and Painting II	1.0	1.0
A103	3-D Design	1.0	1.0
A104	Portfolio Art	1.0	2.0
A107	Fundamentals of Clay	1.0	0.5
A500	AP Studio Art	1.4	2.0

SUGGESTED SEQUENCES IN ART

Traditional Academics	*Technical Academics*
Grade 9:	*Grade 9*:
Art	Art
Grade 10:	*Grade 10*:
Design and Communication	Design and Communication
Drawing and Painting I	Drawing and Painting I
Grade 11:	*Grade 11*:
3-D Design	3-D Design
Drawing and Painting II	Drawing and Painting II
Grade 12:	*Grade 12*:
Portfolio Art/ AP Studio Art	Portfolio Art/ AP Studio Art
Fundamentals of Clay	Fundamentals of Clay

ART DEPARTMENT

DESIGN AND COMMUNICATION

A100 *1 Credit*

PREREQUISITE: None

This course explores media and techniques, the study of color and design, and the support of school productions. Emphasis is on abstraction in many 2-dimensional formats. Appreciation units and critiques teach the language of design.

DRAWING AND PAINTING I

A101 *1 Credit*

PREREQUISITE: None

This course explores drawing and painting materials and techniques. Creating interesting compositions with a focus on an academic approach to drawing is emphasized. Still-life, landscape, perspective, portraiture, figures and nature are developed



in pencil, charcoal, pastel, pen and ink, watercolor and acrylic. Units of art appreciation include Renaissance Art, Impressionism, and Twentieth Century American Art. This includes field trips to Washington, DC art museums.

DRAWING AND PAINTING II

A102 *1 Credit*

PREREQUISITE: Drawing and Painting I

This course emphasizes creativity and developing individuality in artistic style. Media used in Drawing and Painting I will be further explored and additional media experienced, such as oil pastel, scratchboard, airbrush, digital media, and canvas stretching for acrylic painting. Art appreciation is approached through individual research, videos and textbook assignments. This course includes field trips to Washington, DC art museums.

3-D DESIGN

A103 *1 Credit*

PREREQUISITE: None

This course is designed for students with a serious interest in exploring sculptural art forms and the thought that goes into them. The course combines making, discussing, and writing about various sculptural approaches with assorted media. Areas of exploration include constructed forms, modeled forms, sculpted forms, and casting. Media include cardboard, foam board, clay, carving media, plaster…sketchbook is required of all students and outside drawings are a requirement, critiques and journals are used to teach the language of art and design.

PORTFOLIO ART

A104 *2 Credits*

PREREQUISITE: Drawing and Painting II

This course is an independent study course for the art student seriously interested in art and in the development of a portfolio of work for college entrance or job opportunity. Students have a choice of projects, media, and art appreciation reports which meet the variety requirements of the portfolio. There are no project introductions or demonstrations. Individual responsibility for productive work habits in class is required. Instruction is entirely by individual assistance and critical evaluation.

AP STUDIO ART

A500 *(1.4 Weight)* *2 Credits*

PREREQUISITE: Drawing and Painting II

This course is an independent study program for students seriously committed to studying art. The course follows guidelines and requirements set by the College Board, which includes submitting a portfolio to the College Board for review and grading. This submission requires an Advanced Placement Examination fee. AP course may have summer assignments. Due to possible scheduling conflicts, students may have to choose among the various AP offerings. Taking an AP course does not automatically guarantee that a student will score high enough to receive AP credit on the college level. Check with individual colleges for their policy on AP exam scores.

FUNDAMENTALS OF CLAY

A107 *.5 Credit*

Prerequisites: None

Fundamentals of Clay is a semester-long course offered by the Art Department. In this hands-on course, students will learn about the basic fundamentals and principles of clay and its use as an artistic medium. Students will make a variety of functional containers through the application of various hand-building techniques. Additionally, students will learn to make clay pots with the aid of an electric potter's wheel. Students will also have the opportunity to create sculptural pieces with clay.



BUSINESS AND TECHNOLOGY MASTER COURSE LISTING

Course No.	Course Title	Weighted Value	Credit Value
B100	Accounting I w/Computer Applications	1.0	1.0
B101	Accounting II w/Computer Applications	1.0	1.0
B102	Computer Keyboarding Applications	1.0	0.5
B103	Essential Software Applications	1.0	0.5
B104	Power of MS Word	1.0	1.0
B105	Inside Microsoft Office	1.0	1.0
B106	Interactive Media	1.0	1.0
B107	Sports and Entertainment, Business and Financial Management	1.0	1.0
B108	Notemaking/SuperWrite	1.0	0.5
B109	Personal Financial Management	1.0	0.5
B110	A+ Computer Repair and Maintenance	1.0	1.0
B111	On-Line Yearbook Publication	1.0	1.0
B112	Your Employability Skills (Y.E.S.)	1.0	0.5
B115	Quickbooks Pro 2006 & Office Management Technology	1.0	0.5
B117	R.E.A.L. (Entrepreneurship)	1.0	0.5
B118	Business Law	1.0	1.0
B119	CAPSTONE Business COOP	1.0	0.5
B120	Elementary COOP	1.0	0.5
B121	Diversified Occupations –COOP	1.0	0.5
B122	HealthCare Careers Institute	1.0	0.5
B129	Community Service Learning	1.0	0.5
B131	Chambersburg Hospital Volunteer Program	1.0	1.0
B300	Accounting III w/Computer Applications	1.2	1.0

SUGGESTED SEQUENCES IN BUSINESS AND TECHNOLOGY
Accounting

Traditional Academics

Grade 10:

Accounting I w/Computer Applications
Computer Keyboarding Applications **or** Essential Software Applications
Follow recommended course selection for pathway.

Grade 11:

Accounting II w/Computer Applications
Inside Microsoft Office
Follow recommended course selection for pathway.

Grade 12:

Accounting III w/Computer Applications
Business Law
Follow recommended course selection for pathway.

Technical Academics

Grade 10:

Accounting I w/Computer Applications
Power of MS Word
Follow recommended course selection for pathway.

Grade 11:

Accounting II w/Computer Applications
Computer Applications III
Follow recommended course selection for pathway.

Grade 12:

Accounting III w/Computer Applications
Interactive Media
Follow recommended course selection for pathway.

SUGGESTED SEQUENCES IN BUSINESS AND TECHNOLOGY
Business and Information Technology

Traditional Academics

Grade 10:

Accounting I
Business Financial Management
Follow recommended course selection for pathway.

Grade 11:

Office Management/Personal Finance Management/R.E.A.L.
Power of MS Word and Inside Microsoft Office
Follow recommended course selection for pathway.

Grade 12:

Business Law
Acct II w/Computer Applications **or** Inside Microsoft Office
Follow recommended course selection for pathway.

Technical Academics

Grade 10:

Accounting I
Office Management/PFM
Follow recommended course selection for pathway.

Grade 11:

Business Financial Management
Power of MS Word and Inside Microsoft Office
Follow recommended course selection for pathway.

Grade 12:

Business Law
Accounting II w/Computer Applications **or** Interactive Media
Follow recommended course selection for pathway.

SUGGESTED SEQUENCES IN BUSINESS AND TECHNOLOGY
Computer Information Management

Traditional Academics	*Technical Academics*
Grade 10:	*Grade 10*:
A+ Computer Repair **or** Power of MS Word **or** C++	A+ A+ Computer Repair
Computer Keyboarding Applications or Computer Applications I	
Follow recommended course selection for pathway.	Follow recommended course selection for pathway.
Grade 11:	*Grade 11*:
CISCO	CISCO or C++
Inside Microsoft Office	Inside Microsoft Office
Follow recommended course selection for pathway.	Follow recommended course selection for pathway.
Grade 12:	*Grade 12*:
CISCO	CISCO or C++
Inside Microsoft Office **or** Interactive	Inside Microsoft Office **or** Interactive
Follow recommended course selection for pathway.	Follow recommended course selection for pathway.

BUSINESS AND TECHNOLOGY DEPARTMENT

ACCOUNTING I W/COMPUTER APPLICATIONS

B100 *1 Credit*

PREREQUISTE: None

Accounting is an excellent foundation course for students who plan to enroll in the accounting curriculum or related business programs (accounting, business, finance, law, management, or marketing) in college as well as for those students who plan to enter the business world upon high school graduation. Students learn the theory of accounting and receive practice in recording business transactions. Students will prepare income and expense statements and determine profit earnings of a business. Students will learn the complete accounting cycles of proprietorships and partnerships. A real life simulation involving the preparation of records for business is included. The use of computer technology is integrated throughout this course. Course may be articulated to local post-secondary institutions

ACCOUNTING II W/COMPUTER APPLICATIONS

B101 *1 Credit*

PREREQUISITE: Accounting I

Accounting II provides advanced level of study of accounting principles, concepts, procedures, and terminology associated with corporations. Students will learn departmentalized accounting and accounting control systems including inventory management. Students will work on accounting simulations and projects to gain competence in this field. The use of computer technology is integrated throughout this course. Course may be articulated to local post-secondary institutions.

ACCOUNTING III WITH COMPUTER APPLICATIONS

B300 (1.2 Weight) 1 Credit

PREREQUISITE: Accounting I and II or Accounting I and Algebra II

Accounting III with Computer Applications is designed for students who are planning to pursue a career in accounting directly upon graduation, or for students who are planning to continue their accounting education at a two or four year institution. This course explores various aspects of accounting, including accounting control systems, accounting adjustments, management accounting, cost accounting, not-for-profit accounting, and financial analysis. The use of computer technology is integrated throughout this course. Course may be articulated to local post-secondary institutions.

BUSINESS LAW

B118 1 Credit

PREREQUISITE: Recommended for 11th and 12th Grade

Few subjects are as dramatic and challenging as the law. This course is designed to introduce students with the basic legal principles common to business and personal activities. Topics include evaluating contracts, family and consumer issues, credit law, buying and selling, employment contracts, and real estate. Because laws grow from human conflict, lawsuits are often emotional, complex, and costly. An awareness of legal problems that may confront young adults is one of the objectives of this course. Course may be articulated to local post-secondary institutions.

NOTEMAKING/SUPERWRITE

B108 .5 Credit

PREREQUISITE: None

This one-semester course for college preparatory and business students is designed to teach students how to take notes using an easy-to-learn abbreviated alphabetic writing system. Notemaking is an excellent system for professional, educational (high school and college), or vocational purposes. This skill can be used for taking class notes, composing research/term papers, taking notes at meetings, and dictation in an office.

OFFICE MANAGEMENT AND TECHNOLOGY

B115 .5 Credit

PREREQUISITE: Recommended for 11th and 12th Grade

This is a semester course designed to provide students with experiences to become effective and successful in the actual workplace. Microsoft Office will be used to develop skills in records management, office communications, and work processing. This course also includes telephone techniques, banking procedures, job interviews, job applications, and a final unit on people: attitudes, habits, and traits. An objective of the course is to provide students with experiences similar to actual office simulations. Non-business students will benefit from this course because it deals with real life situations.

COMPUTER KEYBOARDING APPLICATIONS

B102 .5 Credit

PREREQUISITE: None



The college and business world today dictates the importance of keyboarding skills for everyone! Learning how to operate a computer and word processing by "touch keyboarding" is a must. In this course, students will learn the fundamentals of computer keyboarding and MICROSOFT WORD. Students will learn to create and format research reports, memorandums, personal and business letters.

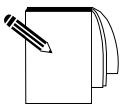
ESSENTIAL SOFTWARE APPLICATIONS

(Word, Excel, Access, Powerpoint)

B103 .5 Credit

PREREQUISITE: None

The *essential* course uses a hands-on approach for teaching the *essential* technology skills to be successful in both school and work. In today's world of



technology, this is an important course for all students to take. Students learn how to effectively and easily use each software program in the Microsoft Office suite. After completing this course, students will be able to use the basic features of each application to create basic documents with ease in their personal, school, and career activities. Software applications that will be utilized include: Microsoft Word, Excel, Access, and PowerPoint.

POWER OF MS WORD

B104 *1 Credit*

PREREQUISITE: Touch Typing Technique Recommended; Recommended for 10th Grade

This course will reinforce the students' knowledge of correct keyboarding skills while learning various forms of document formatting utilizing word processing software. Students will start from basic and move to more advanced features of MICROSOFT WORD. Upon successful completion of this course, students will have the opportunity to take the MICROSOFT OFFICE SPECIALIST (MOS) CERTIFICATION EXAM. Course may be articulated to local post-secondary institutions.

INSIDE MICROSOFT OFFICE

(Excel, Access, PowerPoint, FrontPage)

B105 *1 Credit*

PREREQUISITE: None; Recommended for 11th and 12th Grade

In this hands-on course, students will learn the most popular spreadsheet, database, presentation, and web publishing software programs used within the information and business technology arena. Students will start with basics and learn how to effectively use advanced features of Microsoft Excel, Access, PowerPoint, and FrontPage through hands-on projects. Upon successful completion of this course, students will have the skills necessary to take the MICROSOFT OFFICE SPECIALIST (MOS) CERTIFICATION EXAM enabling them to earn 1 college credit. Course may be articulated to local post-secondary institutions.

INTERACTIVE MEDIA

(Desktop Publishing & Web Design)

B106 *1 Credit*

PREREQUISITE: None; Recommended for 11th and 12th Grade

This fun course provides students with the opportunity to learn WEB PAGE DESIGN, creation of DIGITAL GRAPHICS and ANIMATION for the web and DESKTOP PUBLISHING. Students will learn the following software: Microsoft Publisher, Adobe Photoshop, Fireworks, HTML programming, Flash & Dreamweaver. Students will create/publish the school newspaper – *"Trojan Times"* in addition to hands-on projects such as creating, designing and posting web sites, designing magazine covers and music CD's creating animations and rollover effects.

SPORTS & ENTERTAINMENT, BUSINESS FINANCIAL MANAGEMENT

B107 *1 Credit*

PREREQUISITE: Recommended for 11th and 12 Grade Major; Elective for Non-Major

NEW COMPONENT - Virtual Business Sports and Entertainment Computer Simulation. Manage a sports team and it's facilities. This course is designed as a study of financial and management concepts in a business environment with emphasis in the marketing arena. Topics of study include consumer rights and responsibilities, credit, advertising and selling, product and service planning, marketing information management, and financing and distribution.

PERSONAL FINANCIAL MANAGEMENT

B109 *.5 Credit*

PREREQUISITE: None

Students will learn practical money skills.



Students will design their own personal financial plan, select between various saving and investment options, find and use investment information, and recognize and victim-proof against investment fraud. Topics of study include budgeting, credit, investing (stocks, bonds, annuities, mutual

funds, pensions), employment benefits, and labor laws. This course will teach students how financial markets work. Students will learn how to successfully manage their money now and in their future.

R.E.A.L. (ENTREPRENEURSHIP)

B117 *.5 Credit*

PREREQUISITE: None

The REAL (Rural Entrepreneurship through Action Learning) Entrepreneurship course will teach the students the skills necessary to become a successful entrepreneur through a hands-on approach. Those students with an interest in being his or her own boss someday or have a skill or an idea that could make lots of money, should enroll in this course. Students will develop entrepreneurial knowledge, skills, and attitudes, while learning the process of choosing, researching, planning, and operating a small business of their own design. Student will identify and develop necessary business skills, scan the community for small business opportunities, and prepare a business plan for their own future business idea.

A+ COMPUTER REPAIR AND MAINTENANCE

B110 *1 Credit*

PREREQUISITE: None

The A+ computer hardware and operating systems program is a one-year course. The first half of the year the students learn all about the hardware in a PC from the motherboard and power supply to the disk drives. The second half of the year the students will learn about the operating systems of the computer (DOS/Windows). Learn what is in the computer and how it works from the 286 to the Pentium. This program prepares the student to sit for their A+ certification. The students who successfully complete this course will get a 50% discount on the price of the test when they take it. Course may be articulated to local post-secondary institutions.

ON-LINE YEARBOOK PUBLICATION

B111 *1.0 Credit*

PREREQUISITE: Completion of formal application and interview. Completion of 10th or 11th grade English with a minimum of a "B" as a final average. Students must complete a minimum of two (2) computer classes – one must be an advanced class, i.e., Interactive Media and/or Graphic Design.

In this course, students will learn basic yearbook production which includes understanding the basis tenets of publication as it applies to yearbook; recognize and analyze purposes, structure, and coverage of a yearbook; understand basic layout and design of a yearbook; understand and develop the skills involved in writing copy, captions, and headlines for yearbooks; explore basic graphic design using Studio Works and using the Adobe Suite of software, which includes PhotoShop. Design activities will include creating a portfolio of yearbook layouts to be published in the school yearbook.

YOUR EMPLOYABILITY SKILLS – Y.E.S.

B112 *.5 Credit*

PREREQUISITE: Available to juniors and seniors only

The Your Employability Skills (Y.E.S.) endorsed by York County Alliance for Learning and the Manufacturers' Association of South Central Pennsylvania , is a one semester (18 week) course designed to prepare students to meet the needs of the employment community, and to develop a student's employability skills. **This course is required for all students who are enrolled in the Co-Op program at CASHS.**

CAPSTONE
EDUCATION WORK EXPERIENCE

B119 *Up to 2 Credits*

PREREQUISITE: Seniors Only; the student must initiate the process of entering the Cooperative Education Program by completing a resume, the *Co-op Program Student Recommendation, and the Application for Cooperative Education.* Both forms are included in the Co-Op Scheduling Packet. Students also must participate in a formal interview. **ALL DEADLINES MUST BE FOLLOWED.**

Cooperative Education is one segment of the school-to-work system that enables students to combine academic instruction with occupational instruction through learning on the job in a career area of their choice.

Students have the opportunity to earn school credit in a paid work experience directly related to their educational pathway and career objective in one of the following areas: business, agriculture, construction technology, art or music. Students must carry two full-year courses (two credits) in their chosen career path in both their junior and senior year.

COOPERATIVE EDUCATION
DIVERSIFIED OCCUPATIONS

B121 *Up to 2 Credits*

PREREQUISITE: Seniors only; the student must initiate the process of entering the Cooperative Education Program by completing a resume, the Co-op Program Student Recommendation, and the Application for Cooperative Education. Both forms are located in the Co-Op Scheduling Packet. Students earn school credit for participating in paid and unpaid learning experiences that relate to the field of study or their career objective they plan to pursue after graduation. **ALL DEADLINES MUST BE FOLLOWED.**

Cooperative Education is one segment of the school-to-work system that enables students to combine academic instruction with occupational instruction through learning on the job in a career area of their choice.

Seniors have the opportunity to earn school credit in a paid or unpaid work experience and/or internships directly related to their educational pathway and career objective that they wish to pursue after graduation or after completing post-secondary training.

COOPERATIVE EDUCATION
ELEMENTARY INTERNSHIP

B120 *Up to 2 Credits*

PREREQUISITE: Seniors only; the student must initiate the process of entering the Cooperative Education Program by completing a resume, *the Co-Op Program Student Recommendation, and the Application for Cooperative Education.* Both forms are included in the Co-Op Scheduling Packet. Students must also participate in a formal interview. ALL DEADLINES MUST BE FOLLOWED.

Cooperative Education is one segment of the school-to-work system that enables students to combine academic instruction with occupational instruction through learning on the job in a career area of their choice.

Seniors have the opportunity to earn school credit in an unpaid internship for students who plan to enter the field of elementary or secondary education after graduation and after completing post-secondary training. Students will be placed in a classroom assignment.

HEALTHCARE CAREERS INSTITUTE

B122 *Up to 1 Credit*

PREREQUISITE: Application Process and Interview

This course is designed to direct Franklin County freshman, sophomore, juniors and seniors in the exploration of various healthcare careers in real life experience. The 18-week HCI course places emphasis on the development of patient care and responsibility, personal strengths and skills, as well as vital soft skills for employment. Students are required to observe in a minimum of 20 departments of the hospital

for a period of one or two days, and then spend a concentrated period of time in the one or two departments for the remainder of the semester hours. Students will also be required to attend orientation and information classes, as well as meet class requirements. The entire program takes place on the site of Chambersburg Hospital or at satellite Summit Healthcare offices. Students are responsible for their own transportation to the facilities. Classes meet from 7:30 a.m. – 9:30 a.m., Monday through Friday. The institute is free of charge and the student earns school credit. An application and interview are required.

CHAMBERSBURG HOSPITAL VOLUNTEER PROGRAM

B131 *1.0 Credit*

PREREQUISITE: Seniors Only

Students have the opportunity to gain unpaid work experience and high school credit working in a hospital setting through volunteering at Chambersburg Hospital. Students volunteer to: man information desks, perform messenger services, deliver patient mail and flowers, staff the hospital auxiliary shop, help transport patients in wheelchairs, help in various departments, visiting patients, and help people who need prescription assistance.

COMMUNITY SERVICE LEARNING

B129 *.5 Credit*

PREREQUISITE: Sophomores, juniors and seniors have the opportunity to earn .50 high school credits and gain valuable experience by integrating community service with academic learning.

This nine-week experience promotes learning through hands-on participation and provides opportunities to use skills and knowledge in real-life situations in one of five areas at Chambersburg Hospital: Public Relations, Phlebotomy, Physical Therapy/Occupational Therapy In-Patient, Respiratory Therapy, Bio-Medicine, and Registration. This experience fosters a sense of caring for others by providing a service to the community as volunteers. ****Specific criteria are required for participation in the Service Learning Program.**

QUICKBOOKS PRO 2006 & OFFICE MANAGEMENT TECHNOLOGY

B115 *.5 Credit*

PREREQUISITE: Recommended for 11th and 12th Grade Major; Elective for Non-Major

NEW COMPONENT- Quickbooks Pro 2006 Accounting Software. Master accounting concepts electronically, for the home and the office.

This is a semester course designed to provide students with experiences to become effective and successful in the actual workplace. Microsoft Office will be used to develop skills in records management, office communications, and work processing. This course also includes telephone techniques, banking procedures, job interviews, job applications, and a final unit on people: attitudes, habits, and traits. An objective of the course is to provide students with experiences similar to actual office simulations. Non-business students will benefit from this course because it deals with real life situations.

ENGLISH MASTER COURSE LISTING

Course No.	Course Title	Weighted Value	Credit Value
E100	English 10	1.0	1.0
E101	College Preparatory English 10	1.0	1.0
E300	Honors English 10	1.2	1.0
E102	English 11	1.0	1.0
E103	College Prep English 11	1.0	1.0
E301	Honors English 11	1.2	1.0
E104	English 12	1.0	1.0
E105	College Prep English 12	1.0	1.0
E302	Honors English 12	1.2	1.0
E500	Advanced Placement English	1.4	1.0
E106	Creative Writing	1.0	1.0
E107	Modern Fiction	1.0	0.5
E108	Dramatics I	1.0	0.5
E109	Dramatics II	1.0	0.5
E110	Introduction to Video Production	1.0	0.5
E112	Newspaper Journalism	1.0	1.0
E113	Reading for Proficiency 10	1.0	0.5
E114	ESL English I	1.0	2.0
E115	ESL English II	1.00	2.0
E116	ESL English III	1.00	1.0
E121	ESL English IV	1.0	1.0
E130	ESL English V	1.0	1.0
E117	Speech		0.25
E118	Reading for Proficiency 11	0.5	0.5
E123	Reading for Proficiency 12	0.5	0.25
E303	Advanced Communications	1.2	1.0
Q011	Speech		.25
	Junior Project		0.00

SUGGESTED SEQUENCES IN ENGLISH

Traditional Academics

***Grade 9*:**

English 9 **or**
CP English 9 **or**
Honors English 9

***Grade 10*:**

English 10 **or**
CP English 10 **or**
Honors English 10

***Grade 11*:**

Speech **and**
English 11 **or**
CP English 11 **or**
Honors English 11

***Grade 12*:**

English 12 **or**
CP English 12 **or**
Honors English 12 **or**
AP English

Technical Academics

***Grade 9*:**

English 9 **or**
CP English 9 **or**
Honors English 9

***Grade 10*:**

English 10 **or**
CP English 10 **or**
Honors English 10

***Grade 11*:**

Speech **and**
English 11 **or**
CP English 11 **or**
Honors English 11

***Grade 12*:**

English 12 **or**
CP English 12 **or**
Honors English 12

ENGLISH DEPARTMENT

ENGLISH 10

E100 *1 Credit*

PREREQUISITE: English 9

English 10 is designed for the student who wants to develop reading, writing, grammar/usage, and vocabulary skills needed in today's job market. Students will develop multi-paragraph essays (including but not limited to informational, narrative, and persuasive essays) and letters. Short stories, drama, poetry, and novels by major world authors will be read and related to today's world.

COLLEGE PREPARATORY ENGLISH 10

E101 *1 Credit*

PREREQUISITE: Recommend at least a "C" in CP English 9 or an "A" in English 9

College Preparatory English 10 combines the studies of world literature, composition, and vocabulary to prepare the college-bound student for the demands of higher education. Particular emphasis is given to written expression, organization of multi-paragraph essays (including but not limited to informational, narrative, and persuasive essays), and procedures for revising and editing. The study of grammar and usage as it applies to writing is also part of this course.

HONORS ENGLISH 10

E300 *(1.2 Weight)* *1 Credit*

PREREQUISITE: Recommend at least a "B" in Honors English 9 or an "A" in CP English 9

Honors English 10 combines the studies of world literature, composition, and vocabulary to prepare the college-bound student for the demands of higher education. Particular emphasis is given to written expression, organization of multi-paragraph essays (including but not limited to

informational, narrative, and persuasive essays), and procedures for revising and editing. The accelerated pace of Honors 10 offers extensive discussion, more frequent and challenging writing assignments, the study of grammar and usage as it applies to writing, and an analytical approach to literature.

ENGLISH 11

E102 *1 Credit*

PREREQUISITE: English 10

English 11 is a general course designed to prepare students who want to improve reading, writing, and vocabulary skills in order to succeed in today's job market. Students will analyze themes in American literature and relate selections to today's world. Organizing and developing five-paragraph essays and a topical research paper is required.

COLLEGE PREPARATORY ENGLISH 11

E103 *1 Credit*

PREREQUISITE: Recommend at least a "C" in College Preparatory English 10 or "A" in English 10

College Preparatory English 11 is recommended for the college-bound student who has successfully completed English 10 or College Preparatory English 10. The course stresses the skills needed to write effective multi-paragraph compositions and a literary research paper. Novels, short stories, poetry, and nonfiction by American writers are read, discussed, and used as the focus of writing assignments. Improvement in sentence structure is linked to writing assignments. Vocabulary study is also part of this course.

HONORS ENGLISH 11

E301 *(1.2 Weight)* *1 Credit*

PREREQUISITE: Recommend at least a "B" in Honors English 10 or an "A" in College Preparatory English 10

Honors English 11 is recommended for the self-motivated college preparatory student. The course stresses the skills needed to write effective multi-paragraph compositions and a literary research paper. Students are challenged to engage in literary analysis of novels, short stories, poetry, and nonfiction by American writers through reading, discussion, and writing assignments. Development of varied and effective sentences and vocabulary skills complete this course of study.

ENGLISH 12

E104 *1 Credit*

PREREQUISITE: English 11

English 12 combines thinking and writing skills with the challenge of academic work for the non-college-bound senior who still needs practical communication skills for the job world. It emphasizes the study of British literature and development of composition skills. Requirements include reading and analysis of four major literary works, mastery of a punctuation unit, preparation of a resume as well as multi-paragraph writing assignments, and completion of a year-long vocabulary program.

COLLEGE PREPARATORY ENGLISH 12

E105 *1 Credit*

PREREQUISITE: Recommend at least a "C" in College Preparatory English 11 or "A" in English 11

College Preparatory English 12 is recommended for the college-bound senior. The course stresses writing skills needed for college composition. Writing assignments include a literary research paper, a persuasive essay, a critical analysis, test essays, and a college application/personal essay. This course emphasizes the study of British literature, the study of sentence structure, mastery of basic punctuation, and vocabulary.

HONORS ENGLISH 12

E302 *(1.2 Weight)* *1 Credit*

PREREQUISITE: Recommend at least a "B" in English Honors 11 or an "A" in CP English 11 Honors English 12 offers an accelerated pace designed to challenge the self-motivated college-bound senior. The course stresses analysis of British literature and refinement of writing skills needed for

college composition. Writing assignments include a literary research paper, persuasive and critical essays, test essays, and a college application/personal essay. Studies in literature focus on significant themes, techniques, historical context, and personal response to works by major British writers. Refinement of sentence structure, mastery of basic punctuation, and vocabulary study round out the curriculum.

ADVANCED PLACEMENT ENGLISH

(Literature and Composition)

E500 (1.4 Weight) 1 Credit

PREREQUISITE: Recommend an "A" in Honors English 11

AP English is offered in lieu of Honors English 12 to seniors with exceptional competence in reading comprehension, grammar, and composition skills. Students who do well in the course often opt to take the AP English exam offered by the College Board in May. The course work is intense and designed for students who can work independently and are highly motivated. Extensive reading assignments; frequent writing assignments emphasizing critical analysis, lecture, small-group activities, and seminar discussion provide the basis for exploring drama, selected novels, short stories, poetry, and nonfiction. Several independent projects are required. Works by British, American, and world authors are studied for structure, stylistic devices and significant themes. AP English has summer assignments. Taking an AP course does not automatically guarantee that a student will score high enough to receive AP credit on the college level. Check with individual colleges for their policy on AP exam scores.

CREATIVE WRITING

E106 1 Credit

PREREQUISITE: A ***GENUINE*** Interest in Writing; recommend at least a "B" in English 10 or 11



Creative writing focuses on the tools and techniques of writing, how to get ideas and how to apply them creatively in poems, stories, and essays. The course encourages self-discovery, freedom of expression, discipline of form, and attainment of style. Various types of writing will be explored through criticism and modeling of established literary works. Mastery of poetic devices and short story techniques will be followed by an independent writing project. Students will engage in the selection process for CASHS Collections, the high school literary magazine.

MODERN FICTION

E107 .5 Credit

PREREQUISITE: English 10

Students in grades 11 and 12 who enjoy reading and sharing ideas may elect Modern Fiction. The major emphasis of the course is reading and discussing outstanding short stories, novels, and plays written from World War II to the present. Students will also select topics of interest or favorite authors for independent reading and projects.

DRAMATICS I

E108 .5 Credit

PREREQUISITE: English 10

Dramatics is offered to students interested in theater. The course offers opportunities to learn and polish basic acting techniques and skills. Class activities include learning stage movement and terminology; developing improvisational technique; acting, directing, and critiquing scenes or short one-act plays; as well as writing, directing and producing a children's theater production for elementary school audiences.



DRAMATICS II

E109 .5 Credit

PREREQUISITE: English 10

This class will explore more acting and theatre production than Dramatics I. Students will be expected to perform monologues from memory, participate in stage movement, games, lip-synching and improvisational activities. Students will formalize a resume and cover letter for college programs and perfect auditioning techniques. Students will participate in a

stage performance for the general public in a recital format, research new playwrights, and perform in a musical theater number. This class will be very helpful to students planning on a theater major or minor. If a student is interested in learning more about acting and is eager to participate, this class will engage actors of all levels. Dramatics I is recommended but not necessary as a prerequisite to this class.

INTRODUCTION TO VIDEO PRODUCTION

E110 *.5 Credit*

PREREQUISITE: Recommend an "A" in Speech

This course is designed to teach interested students basic video production techniques. While going through the video making process of pre-production, videotaping, and post-production (editing), students will develop organizational and communications skills and build critical thinking skills. Along with group work, this course will require out of class and out of school time to be spent on the completion of project.

NEWSPAPER JOURNALISM

E112 *1 Credit*

PREREQUISITE: A Genuine Interest in Writing. Successful completion of 10th or 11th grade English.



Students will learn how to use journalistic style to gather news, write news leads, headlines, news stories, specialty stories, feature stories, sports writing, editorials and opinion columns, in-depth reporting, covering entertainment, editing, copy, online journalism, and ethics of student journalism. The publication of the CASHS newspaper *The Trojan Times* is the ultimate goal of this course.

ADVANCED COMMUNICATIONS

E303 *(1.2 Weight)* *1 Credit*

PREREQUISITE: Recommend an "A" in Speech

Oral communications is offered to seniors proficient in speech who want to gain self-confidence by communicating effectively. The course focuses on events recognized by the Pennsylvania High School Speech League. Interviewing techniques, as well as writing, editing, and broadcasting for radio and television are an integral part of the course. Students are expected to critique each other's presentations and offer positive suggestions. Attention is given to individualized projects to meet students' career goals. Students also produce the Information Line for CASHS.

READING FOR PROFICIENCY 10

E113 *.5 Credit*

PREREQUISITE: Sophomores Only



The Reading for Proficiency course offered at CASHS is a semester course designed for sophomores who have not achieved a proficiency score on either the 8th grade PSSA reading test or the 9th grade Terra Nova reading test. The goal of the course is to help the student become better prepared for the 11th grade PSSA reading test as well as postsecondary experiences. The course consists of the following components: a computer based program sequentially structured to guide the student along the reading path from its beginning (reading sounds) to its end (comprehension); a computer based program designed to offer practice in a variety of comprehension activities; PSSA-related activities, including samples from past tests, to help the student experiencing problems with the PSSA test.

READING FOR PROFICIENCY 11

E118 *.5 Credit*

PREREQUISITE: Juniors Only

This course is an extension of Reading for Proficiency 10. The course is designed for juniors who have not successfully demonstrated proficiency. The goal of the course is to aid the student in becoming better prepared for the 11th grade PSSA test as well as a career or postsecondary school experience. Course components are similar to the Reading for Proficiency 10 course.

READING FOR PROFICIENCY 12

E119 *.25 Credit*

PREREQUISITE: Seniors Only

As part of CASHS graduation requirements, students must score at least "Proficient" on

the Reading PSSA test. This course is designed for students that did not meet this requirement. Students will address deficiencies for the senior PSSA re-take and demonstrate proficiency.

ENGLISH AS A SECOND LANGUAGE I

E114 Level 1 2 Credits

Designed for those students whose home language is not English and whose English language skills are minimal or non-existent. Basic listening, speaking, reading, and writing will be stressed. Focus will be on pronunciation, listening skills, grammatical usage, vocabulary acquisition, writing sentences and guided writing. Aspects of American culture will also be addressed.

ENGLISH AS A SECOND LANGUAGE II

E115 Level II 2 Credits

PREREQUISITE: English as a Second Language Level I or a score of 2 on the W-APT or WIDA ACCESS Exam

Designed for those students whose home language is not English and whose English language skills are beginning to develop but who lack the proficiency to participate in a mainstream English class. The four domains of listening skills, grammatical usage, vocabulary acquisition, paragraph development, reading comprehension, and short oral presentations. Aspects of America culture will also be addressed.

ENGLISH AS A SECOND LANGUAGE III

E116 Level III 1 Credit

PREREQUISITE: English as a Second Language Level II or a score of 3 on the W-APT or WIDA ACESS Exam. Designed for those students whose home language is not English and who lack the proficiency to participate in a mainstream English class. The four domains of listening, speaking, reading, and writing will be emphasized. Focus will be on pronunciation, listening skills, correct usage, vocabulary acquisition, reading short stories, articles, and shorter novels, sentence combining, and developing paragraph. Additional aspects of American culture will also be addressed.

ENGLISH AS A SECOND LANGUAGE IV

E121 Level IV 1 Credit

PREREQUISITE: English as a Second Language Level III or a score of 4 on the W-APT or WIDA ACCESS Exam

Designed for those students home language is not English and who lack the proficiency to participate in a mainstream English class. The four domains of listening, speaking, reading, and writing will continue to be emphasized. Particular attention will be paid to idioms and other nuances of the English language, completing applications and resumes, and development of the multi-paragraph essay. Novels will be read at this level; aspects of culture will also continue to be addressed. Some materials from the mainstream will be integrated into course work at this level.

ENGLISH AS A SECOND LANGUAGE V

E130 Level V 1 Credit

PREREQUISITE: English as a Second Language Level IV or a score of above a 4.5 on the W-APT or WIDA ACCESS Exam

Designed for those students home language is not English and who lack the proficiency to participate in a mainstream English class. The four domains of listening, speaking, reading, and writing will continue to be emphasized. Particular attention will be paid to idioms and other nuances of the English language, completing applications and resumes, and development of the multi-paragraph essay. Novels will be read at this level; aspects of culture will also continue to be addressed. Some materials from the mainstream will be integrated into course work at this level.

SPEECH

PREREQUISITE: English 10 *.25 Credit*

Speech, a required course for graduation, teaches communication skills, stresses self-confidence, and encourages creativity and consideration of audience in public speaking. Students prepare and deliver at least six speeches requiring research, planning, outlining, taking notes, and practicing at home.

JUNIOR PROJECT

0 Credit

Current State regulations now require all students to complete a high school project as a graduation requirement. Chambersburg Area Senior High School requires the completion of a topical or literary research paper as a Junior Project to fulfill this requirement. The Junior Project is completed in conjunction with students' junior English class. Successful completion of the Junior Project is required for graduation.

FAMILY AND CONSUMER SCIENCES MASTER COURSE LISTING

Course No.	Course Title	Weighted Value	Credit Value
C101	Family Nutrition	1.0	0.5
C102	Child Development/Parenting	1.0	1.0
C103	Child Development Lab	1.0	0.5
C106	Child Care Internship	1.0	2.0
C107	Culinary I	1.0	0.5
C108	Culinary II	1.0	0.5
C109	Fashion Merchandising	1.0	0.5

SUGGESTED SEQUENCES IN FAMILY AND CONSUMER SCIENCES

Traditional Academics

Grade 9:

Family and Consumer Sciences Electives

Grade 10:

Culinary I
Fashion Merchandising

Grade 11:

Child Development/ Parenting
Family Nutrition
Culinary II

Grade 12:

Culinary II
Fashion Merchandising
Family Nutrition
Child Development/Parenting
Child Development Lab
Child Care Internship

Technical Academics

Grade 9:

Family and Consumer Sciences Electives

Grade 10:

Culinary I
Fashion Merchandising

Grade 11:

Child Development/ Parenting
Family Nutrition
Culinary II

Grade 12:

Culinary II
Fashion Merchandising
Family Nutrition
Child Development/Parenting
Child Development Lab
Child Care Internship

FAMILY AND CONSUMER SCIENCES DEPARTMENT

FAMILY NUTRITION

C101 *.5 Credit*

PREREQUISITE: None

Students will learn the importance of maintaining individual and family health through nutrition. Students will plan food consumption for self/family/others in various stages of the life cycle. This course focuses on food choices and how family members can improve the quality of their life.

CHILD DEVELOPMENT/PARENTING

C102 *1 Credit*

PREREQUISITE: Recommended for 11th or 12th Grade

This course is a study of the early childhood years and the ways infants, toddlers, and preschoolers develop emotionally, socially, physically, and intellectually. Course content includes the care and guidance of children as well as ways to encourage their growth and development. Students investigate community services available to families with children and educational experiences for young children. Child development and family careers and job opportunities are explored. This course provides education for effective, responsible parenting. Students explore roles and responsibilities of parents in a variety of parenting situations including teenage parenting. They study the physical and emotional aspects of pregnancy and childbirth. They also gain insight into the earliest genetic and environmental influences upon the developing child. Students discover the costs and obligations of being a parent and rearing a child. They learn about the influence of family structures on a child's development and are made aware of the importance of the parent on a child's development.

CHILD DEVELOPMENT LAB

C103 *.5 Credit*

PREREQUISITE: Child Development/Parenting, 12th Grade Only

Students will participate in an on-sight preschool program. Students will plan and prepare lessons for the children under the supervision of the Family and Consumer Science teacher.

CHILD CARE INTERNSHIP

C106 *Up to 2 Credits*

PREREQUISITE: Seniors Only

This is an unpaid work experience for students in the Child Development Program at CASHS. All assignments are in a nursery school environment. School credit is also earned. Qualifications and supervision for this program is under the direction of the CASHS Child Development Coordinator.

CULINARY ARTS I

C107 *.5 Credit*

PREREQUISITE: None

Level I will provide students with the basic of food preparation, equipment identification and usage, and career opportunities in the food service industry. Students will also explore principles of nutrition and how to maintain a healthy lifestyle.

CULINARY ARTS II

C108 *.5 Credit*

PREREQUISITE: Culinary Arts I



Students apply their knowledge of basic food preparation from level one to further their experience in a student-operated restaurant. Students will study nutrition related to health concerns, meal planning and management, consumer skills related to food choices as well as reading and interpreting food labels.

FASHION MERCHANDISING

C109 *.5 Credit*

PREREQUSITIE: None



This course provides for the exploration of career opportunities both directly and indirectly related to retail merchandising. Students analyze the elements and processes of design and interpret the influence that social, economic, and practices in textiles, apparel, design, retailing, advertising and promotion.

FITNESS AND WELLNESS AND DRIVER EDUCATION
MASTER COURSE LISTING

Course No.	Course Title	Weighted Value	Credit Value
W139	Adaptive Physical Education	1.0	0.50
W140	Strength Training & Fitness	1.0	0.50
W141	PIAA Sports	1.0	0.50
W142	Health	1.0	0.50
W143	Exercise Science	1.0	0.50
W144	Cardio Endurance/Personal Fitness	1.0	0.50
W145	Team Sports, Skills and Concepts	1.0	0.50
W146	Advanced Team Sports, Coaching and Officiating	1.0	0.50
W147	Lifelong Fitness	1.0	0.50
W148	Dynamic Motions/Dance	1.0	0.50
D100	Driver Education	1.0	0.25
D101	Driver Simulation		0.00

SEQUENCE CHART FOR FITNESS AND WELLNESS

Traditional Academics	*Technical Academics*
Grade 9:	*Grade 9*:
Fitness and Wellness 9	Fitness and Wellness 9
Grade 10:	*Grade 10*:
Fitness and Wellness	Fitness and Wellness
Grade 11:	*Grade 11*:
Fitness and Wellness **and**	Fitness and Wellness **and**
Driver Education Classroom	Driver Education Classroom
Grade 12:	*Grade 12*:
Fitness and Wellness **or**	Fitness and Wellness **or**
Girls/Boys Elective Wellness	Girls/Boys Elective Wellness

FITNESS AND WELLNESS DEPARTMENT

STRENGTH TRAINING AND FITNESS PROGRAM

W140 *.5 Credit*

PREREQUISITE: Successful completion (A or B) of prior Fitness / Wellness class. As an elective, students should be physically inclined and must possess an interest in learning and applying the principles of cardiovascular and resistance training. Classes meet daily for the entire semester. The class size is limited to 24 students.

This course provides an opportunity to further engage in activities designed to achieve peak performance by developing the health and skill related components of fitness, with an emphasis on resistance and cardiovascular training, to include the measurement and evaluation of each component. Students will be exposed to more advanced training methods and techniques applying the principles of exercise science. All students will be required to maintain a folder used to record / log their daily workouts and to design an individualized training program based on the theory covered. As a semester long course, this individualized training program will be completed by the end of the first marking period and performed and evaluated during the second. Student's evaluation includes daily physical performance (resistance and cardiovascular training), written assignments, and a final exams.

PIAA SPORTS

W141 *.5 Credit*

PREREQUISITE: Application Required

Students may utilize a PIAA sport as .5 credit towards their Wellness and Fitness Requirement. After successful participation in a PIAA sporting event, sophomores and juniors may have this credit applied towards their following school year's Wellness & Fitness requirement. This option may only be used one time in the junior year and one time in the senior year. PIAA sanctioned sports are: Cross Country, Football, Basketball, Volleyball, Wrestling, Cheerleading, Track, Baseball, Softball, Golf, Field Hockey, Soccer, Tennis, Gymnastics, Swimming and Lacrosse. PIAA classes ***will not*** be calculated in QPA and class rank.

HEALTH

W142 *.5 Credit*

This is a comprehensive health course that covers a variety of personal health topics aimed to promote healthy lifestyles and lifestyle choices by providing students with thorough information on the topics. Students will also have a chance to receive First Aid/CPR certification.

EXERCISE SCIENCE

W143 *.5 Credit*

PREREQUISITE: Health

This is a classroom-based course that focuses on the study of human movement and of systems, factors, and principles involved in human movement. Students will learn about the effects of physical activity on health and performance, and the factors that influence an individual's participation in physical activity. This course aims to promote enthusiasm for an active and healthy lifestyle and to emphasize the importance of effective lifestyle practices.

CARDIO ENDURANCE/PERSONAL FITNESS

W144 *.5 Credit*

This course's primary focus is on examining the benefits of and improving cardiovascular endurance and its impact on a healthy lifestyle. Students will learn to set their own goals and develop their own personal fitness plan. Students will use fitness principles to meet their fitness goals in both cardio exercises but also a variety of circuit training activities.

TEAM SPORTS, SKILLS AND CONCEPTS

W145 *.5 Credit*

This course will concentrate on strategies, concepts, terminology, and skill development with an emphasis on teamwork and cooperation. Activities may included, but are not limited to: volleyball, football, soccer, Frisbee, floor hockey, lacrosse, and basketball.

ADVANCED TEAM SPORTS, COACHING AND OFFICIATING

W146 *.5 Credit*

PREREQUISITE: Team Sports or active participation in PIAA sport.

This course expands on concepts and strategies from Team Sports. Students will be more involved in the planning and instruction of activities and will learn coaching strategies. Students will also have the opportunity to explore officiating regulations.

LIFELONG FITNESS

W147 *.5 Credit*

In emphasis of this course is on encouraging students to explore and participate in lifelong fitness activities. Students will analyze the history of the activities, terminology, and community resources. Activities may include, but are not limited to: archery, dance, volleyball, tennis, bad mitten, bowling, pickleball, golf, swimming, biking, rock climbing and fitness walking.

DYNAMIC MOTIONS/DANCE

W148 *.5 Credit*

This course includes a variety of low, moderate, and high impact aerobic activities. Students will explore movements associated with dance (hip-hop, country, zumba), yoga, kickboxing, step aerobics, pilates, and tae-bo. Students will design and implement their own dynamic movement compositions.

DRIVER'S EDUCATION DEPARTMENT

CLASSROOM PHASE *.25 Credit*

PRIORITY: Seniors, Juniors (in that order); Not available to Grade 10

The classroom phase is a graduation requirement for all students. It must be scheduled during the Junior year. It will meet all five days per week for nine weeks. Course emphasis is on basic skills, defensive driving and special skills needed to handle difficult situations.

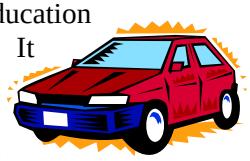
DRIVING/SIMULATION PHASE

(Scheduled through Driver's Ed. Department)

D101 *0 Credit*

PRIORITY: Seniors, Juniors (In that Order); Not available to Grade 10

PREREQUISITE: Driver's license or permit, Senior or Junior status and have satisfactory completion or enrollment in the Classroom phase. ***A $50.00 fee for this class is required.***



Driving/Simulation is an elective course needed to complete Driver Education qualification for the automobile insurance discount and senior license benefits. It should be scheduled in place of a study hall during the same semester as the Classroom phase. Priorities for scheduling - Juniors will be established by birth date. Course emphasis is three (3) hours of hands-on, behind the wheel instruction in a dual controlled vehicle, combined with nine (9) hours of instruction in a laboratory that simulates the varied experiences.

LEARNING SUPPORT MASTER COURSE LISTING

Course No.	Course Title	Weighted Value	Credit Value
K100	RR Biology	1.0	1.0
K101	RR Earth Science	1.0	1.0
K102	RR Physical Science	1.0	1.0
K106	English 10	1.0	1.0
K107	English 11	1.0	1.0
K108	English 12	1.0	1.0
K109	RR American History	1.0	1.0
K110	RR World History	1.0	1.0
K112	Reading for Proficiency I	1.0	0.5
K113	Math for Proficiency Algebra I	1.0	0.5
K114	Career Study	1.0	1.0
K115	LS Study Hall	0.0	0.0
K122	Career Study AM – English	1.0	1.0
K123	Career Study AM – Math	1.0	1.0
K124	Career Study AM – Science	1.0	1.0
K125	Career Study AM – Social Studies	1.0	1.0
K126	Career Study PM – English	1.0	1.0
K127	Career Study PM – Math	1.0	1.0
K128	Career Study PM – Science	1.0	1.0
K129	Career Study PM – Social Studies	1.0	1.0
K130	Career Study AM (Periods 1-4)	1.0	2.0
K131	Career Study PM (Periods 6-9)	1.0	2.0
K132	World History HI	1.0	1.0
K133	Reading for Proficiency II	1.0	0.5
K134	Math for Proficiency Algebra II	1.0	0.5
K135	Math for Proficiency Geometry III	1.0	0.5
K136	Reading for Proficiency III	1.0	0.5
K137	Career Study (Term)	1.0	0.25
K154	RR English 10	1.0	1.0
K155	RR English 11	1.0	1.0
K156	RR English 12	1.0	1.0
K170	Algebra I	1.0	1.0
K171	Algebra II	1.0	1.0
K172	Geometry	1.0	1.0
K173	World History	1.0	1.0
K174	American History	1.0	1.0
K175	Biology	1.0	1.0
K176	Physics	1.0	1.0

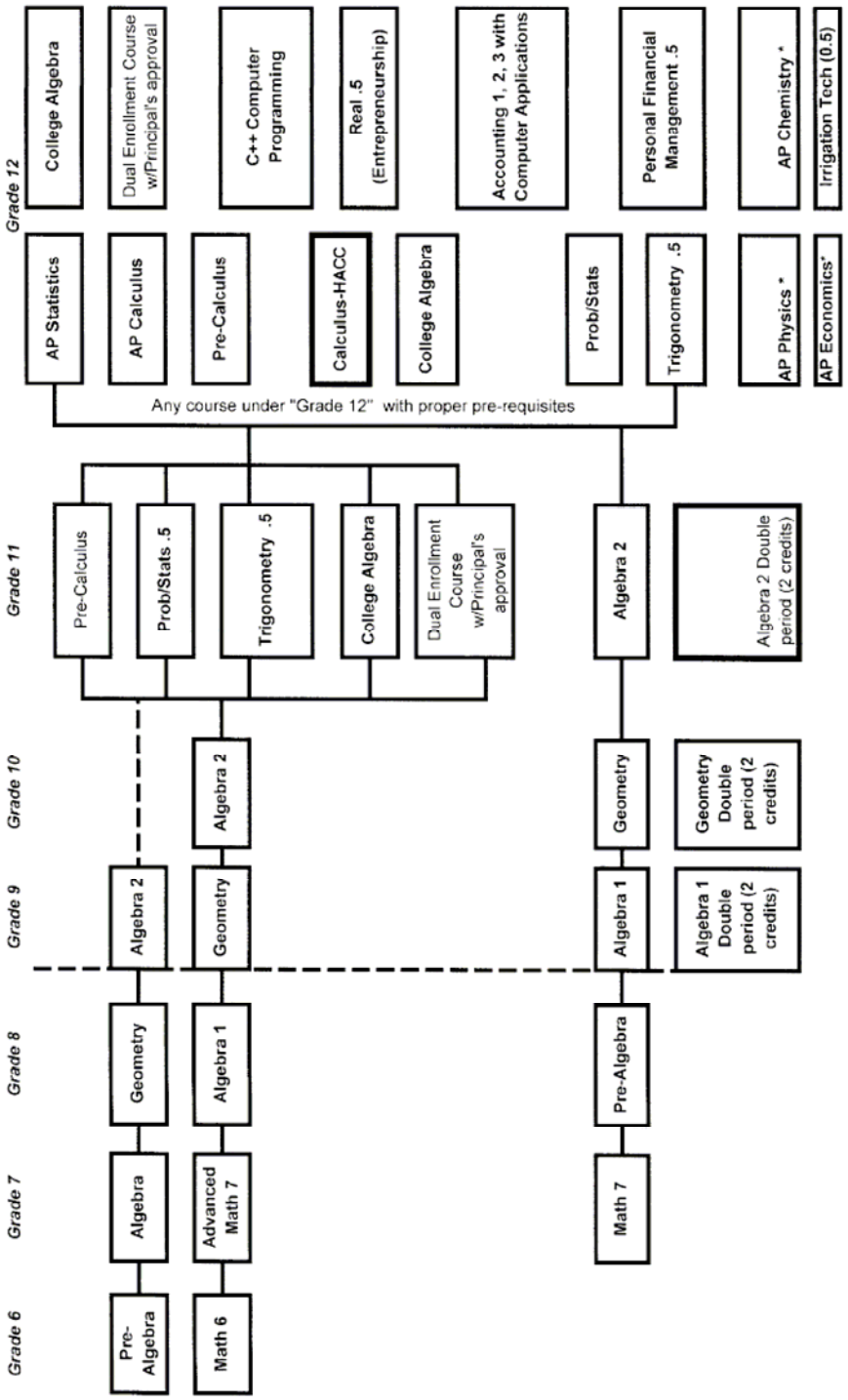
MATHEMATICS DEPARTMENT

Course No.	Course Title	Weighted Value	Credit Value
M103	Math for Proficiency Algebra I	1.0	0.5
M104	Algebra I	1.0	1.0
M105	Geometry	1.0	1.0
M106	Algebra II	1.0	1.0
M107	C++ Computer Programming	1.0	1.0
M108	Math for Proficiency Algebra II	1.0	0.5
M109	Math for Proficiency Geometry	1.0	0.5
M110	Math for Proficiency (grade 12 only)	1.0	0.25
M300	Trigonometry	1.2	0.5
M301	Probability & Statistics	1.2	1.0
M302	Pre-Calculus	1.2	1.0
M303	College Algebra	1.2	1.0
M304	College Calculus	1.2	1.0
M500	AP Calculus	1.4	1.0
M501	AP Statistics	1.4	1.0

Guidelines for the Mathematics Department

- Students are required to receive 4 math credits. FCCTC students are required to receive 3 math credits.
- All students will take Algebra II.
- A student will receive 2 CASD math credits for any double period math class; Alg1, Geo, Alg2: ***Students will need to take Algebra 2. A student will not meet their math credits by taking 2 double period courses.***
- All students will complete Algebra 2
- Any student that takes Algebra 1 or Geometry prior to 9th grade and earns a "C" will be able to count this credit toward the 4 high school math credits.
- Any student that enrolls in a course in which the student receives college credit (Dual Enrollment or College in the High School) will receive one CASD math credit.
- For the fourth math credit students may use:
    - C++ Computer Programming 1 credit
    - RE.A.L. 0.5 Credit
    - Accounting 1, 2, 3 with Computer Applications 1 credit
    - Personal Financial Management 0.5 credit
    - Irrigation Technology 0.5 credit
    - AP Chemistry
    - AP Physics
    - AP Economics

Chambersburg Area School District Mathematics Continuum



All students will complete Algebra 2

Students that meet certain criteria(low grades,non-proficiency, teacher recommendation) can enroll in a double period of Algebra 1, Geometry, Algebra 2 and will receive 2 CASD Math credits.

A student that takes Algebra 1 or Geometry prior to 9th grade will receive credit toward the 4-math credit requirement

Any course in which a student receives college credit(Dual Enrollment or HACC College in the High School) will receive 1 CASD math credit regardless of length of time.

A course cannot simultaneously count toward credits in two departments. For example, a student cannot count AP Physics as both a CASD math and CASD science credit.

MATH FOR PROFICIENCY - ALGEBRA I

M103 *.5 Credit*

PREREQUISITE: None

The Math for Proficiency course offered at CASHS is a semester course designed for sophomores who have not achieved a proficiency score on the 4-Sights Test. The goal of the course is to help the student become better prepared for the 11th grade PSSA Math test as well as postsecondary experiences. The course consists of the following components: a computer based program sequentially structured to guide the student along the Math path from its beginning (reading sounds) to its end (comprehension); a computer based program designed to offer practice in a variety of comprehension activities; PSSA-related activities, including samples from past tests, to help the student experiencing problems with the PSSA test.

MATH FOR PROFICIENCY - ALGEBRA II

M108 *.5 Credit*

PREREQUISITE: Enrolled in Algebra II class, non-proficiency on the previous end-of-year 4-Sights test.



This course is for students that are enrolled in Algebra II and gives students extra time to be successful in the Algebra II course. Course concepts include the same concepts as the Algebra II course. Students will also receive remediation on concepts that will be featured on the PSSA test.

MATH FOR PROFICIENCY - GEOMETRY

M109 *.5 Credit*

PREREQUISITE: Enrolled in Geometry class, non-proficiency on the previous end-of-year 4-Sights test.

This course is for students that are enrolled in Geometry and gives students extra time to be successful in the Geometry course. Course concepts include the same concepts as the Geometry course. Students will also receive remediation on concepts that will be featured on the PSSA test.

MATH FOR PROFICIENCY - 12

M110 *.25 Credit*

PREREQUISITE: Seniors Only

As part of CASHS graduation requirements students must score at least "Proficient" on the PSSA test. This course is for students that did not meet this requirement. Students will address deficiencies for the senior PSSA re-take.

ALGEBRA I

M104 *1 Credit*

PREREQUISITE: Completion of Pre-Algebra

This course is designed to reinforce arithmetic concepts and help the student make the transition from arithmetic to algebra. Topics include the traditional arithmetic areas: whole numbers, fractions, decimals, percents, ration and proportion, and measurement. Throughout the course, integers, introductory algebraic concepts, solving equations, and introductory coordinate geometry are introduced.

GEOMETRY

M105 *1 Credit*

PREREQUISITE: Successful completion of Algebra I

Geometry provides students with experiences that deepen the understanding of two and three-dimensional objects and their properties. Deductive and inductive reasoning as well as investigative strategies in drawing conclusions are stressed. Properties and relationships of geometric objects include the study of: (1) points, lines, angles and planes; (2) polygons, with a special focus on quadrilaterals, triangles, right triangles and; (3) circles. An understanding of proof and logic is developed.

ALGEBRA II

M106 *1 Credit*

PREREQUISITE: Successful completion of Algebra I and Geometry

Algebra II builds on the foundation of Algebra I. Interdisciplinary connections show how math is related to other areas of study. Students will relate algebraic models to the real world, analyze nonlinear equations/inequalities, relate exponential and logarithmic functions, perform operations with radicals and complex numbers and study relations, functions, rational expressions, quadratic functions and equations, complex numbers, conic sections, sequences and series.

TRIGONOMETRY

M300 *(1.2 weight)* *.5 Credit*

PREREQUISITE: Successful completion of Algebra II

This course is a standard two-credit college course in trigonometry. The primary objective is to help you fully understand the fundamental concepts of trigonometry and to show how trigonometry can be used to model real-life problems. This course covers trigonometric functions, their basic properties and graphs, identities, inverse trigonometric functions, solving trigonometric equations, and solutions of triangles.

PROBABILITY & STATISTICS

M301 *(1.2 weight)* *1.0 Credit*

PREREQUISITE: Successful completion of Algebra II

An introduction to elementary methods and techniques in probability and statistics. Topics include sampling, frequency distributions, elementary probability, discrete and continuous probability distributions, interval estimation, hypothesis testing, and simple correlation.

PRE-CALCULUS

M302 *(1.2 weight)* *1 Credit*

PREREQUISITE: Recommendation grade of "C" in Algebra II

This course is intended to prepare the student for Calculus and covers advanced mathematical concepts. Topics in the curriculum include: systems of equations and inequalities, rational functions, continuity of functions, polynomial functions, trigonometry, polar coordinates and complex numbers, exponential and logarithmic functions, vectors, parametric equations, conic sections and derivatives. A graphing calculator is required for this course.

Students enrolled in this course are eligible to receive HACC credit through the College in the High School Program. To receive HACC credit, students must meet HACC eligibility requirements, which includes a math placement test. Students not meeting HACC requirements are still eligible for the course. Since this is a "college level" course, students will be expected to complete tasks beyond the classroom.

COLLEGE ALGEBRA

M303 *(1.2 weight)* *1 Credit*

PREREQUISITE: Algebra II and placement through the HACC Placement Program to receive HACC credit.

This course would be a part of the College in the High School Program. Fundamental algebraic operations, exponents and radicals, systems of equations, higher degree equations, logarithms, matrices, inequalities.

Students enrolled in this course are eligible to receive HACC credit through the College in the High School Program. To receive HACC credit, students must meet HACC eligibility requirements, which includes a math placement test. Students not meeting HACC requirements are still eligible for the course.

Since this is a "college level" course, students will be expected to complete tasks beyond the classroom.

CALCULUS HACC COLLEGE IN THE HIGH SCHOOL

M304 (1.2 weight) 1 Credit

PREREQUISITE: Successful completiong of Pre-Calculus, "C" or above is recommended.

This course is not as rigorous as AP Calculus. Students enrolled in this course are eligible to receive HACC credit through the College in the High School Program. To receive HACC credit, students must meet HACC eligibility requirements, which includes a math placement test. Students not meeting HACC requirements are still eligible for the course. Course content includes, Limits and Continuity, Differentiation, Applications of Derivatives, Integration, and Applications of Definite Integrals.

AP CALCULUS

M500 (1.4 Weight) 1 Credit

PREREQUISITE: Successful Completion of Pre-Calculus

The major concepts in differential and integral calculus will be illustrated and interrelated; the many types of problems evolving from these concepts will be presented and practiced. A goal of the course is to provide an opportunity to successfully complete the AP exam, and possibly receive advanced placement and/or credit in college. Toward this end, additional review, practice and help sessions will be scheduled for "out-of-class" time for those planning to take the AP exam. Students choosing an AP course may have summer assignments. Due to possible scheduling conflicts, students may have to choose among the various AP offerings. Taking an AP course does not automatically guarantee that a student will score high enough to receive AP credit on the college level. Check with individual colleges for their policy on AP exam scores.

AP STATISTICS

M501 (1.4 Weight) 1 Credit

PREREQUISITE: Successful Completion of Algebra II

The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will be exposed to four broad conceptual themes: observing patterns and departures from patterns, deciding what and how to measure, producing models using probability theory and simulation and confirming models. Students choosing an AP course may have summer assignments. Due to possible scheduling conflicts, students may have to choose among the various AP offerings. Taking an AP course does not automatically guarantee that a student will score high enough to receive AP credit on the college level. Check with individual colleges for their policy on AP exam scores.

C++ COMPUTER PROGRAMMING

M107 1 Credit

PREREQUISITE: At Least a "C" in Algebra I or a "C" in Algebra II

This course will teach the basics of the C++ programming language. The students will learn to write programs that include computer input and output, decision-making, branching, looping, numeric and string functions and arrays. Establishing, sorting and searching files will also be discussed. Projects will be a major part of the course.

MUSIC MASTER COURSE LISTING

Course No.	Course Title	Weighted Value	Credit Value
J100	Music History	1.0	1.0
J101	Music Sight-Singing & Dictation	1.0	1.0
J300	Music Theory	1.2	1.0
J102	Music Technology	1.0	1.0
J103	Glee Club	1.0	1.0
J105	Band A	1.0	1.0
J106	Band B	1.0	.75
J107	Jazz Band I	1.0	1.0
J108	Jazz Band II	1.0	1.0
J109	Orchestra	1.0	1.0
J110	Bell Choir	0.0	0.0
J111	Keyboard Lab	1.0	1.0

SUGGESTED SEQUENCE IN MUSIC

Traditional Academics	*Technical Academics*
Grade 9:	*Grade 9*:
Band	Band
Orchestra	Orchestra
Chorus	Chorus
Electives	Electives
Grade 10:	*Grade 10*:
Glee Club	Glee Club
Band	Band
Symphony	Symphony
Jazz Band	Jazz Band
Electives	Electives
Grade 11:	*Grade 11*:
Glee Club	Glee Club
Jazz Band	Jazz Band
Band	Band
Symphony	Symphony
Electives	Electives
Grade 12:	*Grade 12*:
Glee Club	Glee Club
Jazz Band	Jazz Band
Band	Band
Symphony	Symphony
Electives	Electives

MUSIC DEPARTMENT

MUSIC HISTORY

J100 *1 Credit*

PREREQUISITE: None

Music History is the study of Western Art Music and involves listening to a great amount of music and studying its place in history. The objective of the course is to expose the student to many different styles of music through listening experiences and to study current trends in music. All students planning to attend college would do well to schedule this course in preparation for general studies requirements in higher education.

MUSIC SIGHT-SINGING & DICTATION

J101 *1 Credit*

PREREQUISITE: Students must also be currently enrolled in band, chorus, or orchestra or studying music privately with an approved performance concentration taught by an approved certified instructor. The ability to read and perform music is essential for development in this class.

This course is designed for students that want to strengthen their basic music fundamental skills and improve their ability

to sing music at sight. Dictation is used as part of the course to help with the reading of melody, harmony and rhythm. This course is of great value to students involved in musical organizations in or out of school and those students planning to pursue further training in music after graduation.

MUSIC TECHNOLOGY

J102 *1 Credit*

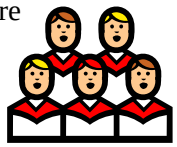
PREREQUISITE: Students must also be currently enrolled in band, chorus, or orchestra or studying music privately with an approved performance concentration taught by an approved certified instructor. The ability to read and perform music is essential for development in this class. This course is an introduction to various elements of music technology, including synthesizer performance and programming and MIDI (musical instrument digital interface), and using notation and sequencing software to create compositions and arrangements. This is a "hands on" lab course. Students use computers, synthesizers and recording equipment to create individual and class projects. Recommended for students going into college music programs. Class size is limited by the number of computers and synthesizers available.

GLEE CLUB

J103 *1 Credit*

PREREQUISITE: Audition

The glee club is the major choral-performing group. The members are selected after an audition with the choral director. All students in grades 10, 11 and 12 are eligible to audition for the Glee Club and advised to check the daily bulletin for information concerning these auditions. Auditions will be held in February. Glee Club is scheduled as a class during the school day.



BAND A

J105 *1 Credit*

PREREQUISITE: Instrumental Ability and Audition

Members of the band are selected by audition with the band director. Band rehearses each morning from 7:20 to 8:05.



Students in grades 10, 11 and 12 are eligible. Career Technology students may be scheduled in the band.

BAND B

J106 *.75 Credit*

PREREQUISITE: Instrumental Ability and Audition

Members of the band are selected by audition with the band director. Band rehearses each morning from 7:25 to 8:04. Participation in other instrumental ensembles requires being in band. This band course is designed solely for fall athletes. Given the demands and rigor of athletic participation, the extra-curricular component of regular marching band is complicated and difficult to fulfill. Students electing this course may attend and participate in travel, games, and parades as their schedules permit, pending approval of the director. Participation includes 2nd, 3rd, and 4th marking periods along with respective parades, formal concerts, and exhibitions. Some extra rehearsals are required. Students in grades 10, 11 and 12 are eligible. Career Technology students may be scheduled in the band.

JAZZ BAND

J107 *1 Credit*

PREREQUISITE: Instrumental Ability, Audition, Proper Instrumentation

Membership in the jazz band is determined by audition. Only those instruments used in such an ensemble are screened and students must show an above-average ability in reading, sight-reading, and overall ability.

SYMPHONY

J109 *1 Credit*

PREREQUISITE: Instrumental Ability and Audition

Members of the orchestra are selected by audition with the orchestra director. Symphony Orchestra rehearses on Thursday's after school from 3:30 – 5:10 p.m. and string players attend a group lesson for one full period each week. Students in grades 8, 9, 10, 11 and 12 are eligible. Career Technical students may be scheduled for orchestra.

KEYBOARD LAB

J111 *1 Credit*

PREREQUISITE: Students must also be currently enrolled in band, chorus, or orchestra or studying music privately with an approved performance concentration taught by an approved certified instructor. The ability to read and perform music is essential for development in this class. This course is designed to strengthen the university-bound music student's keyboard skills. A basic keyboard knowledge is required. This course is designed to help with those students electing music theory, technology, and sight-singing/dictation. Using interactive feedback software, students will study hand positions, fingering, rhythm, sight-reading, intervals, chords, scales, and improvisation. Students will also perform in solo, duet, and class recitals. Class size is limited by the number of synthesizers and computers available.

MUSIC THEORY

J300 *(1.2 Weight)* *1 Credit*

PREREQUISITE: Students must also be currently enrolled in band, chorus, or orchestra or studying music privately with an approved performance concentration taught by an approved certified instructor. The ability to read and perform music is essential for development in this class. Music Theory is the study of how music is constructed and written. Students write music through the academic year. It is a course in melody, harmony and rhythm. Fundamentals of music are reviewed in the early part of the year followed by the actual writing of chords, phrases, and original compositions. This course is of great value to students planning to study music at the college level or through private instruction after graduation. Please schedule a meeting with the instructor when considering scheduling.



PERFORMING ENSEMBLES

0 Credit

PREREQUISITE: Auditions in Band, Glee Club, Symphony

Membership in Choristers, Steel Band, Bell Choir, German Band and Symphonette is determined by the directors of Band, Glee Club and Symphony. Members of these groups should contact the director if interested in a performing ensemble.



SCIENCE MASTER COURSE LISTING

Course No.	Course Title	Weighted Value	Credit Value
S101	Biology	1.0	1.0
S102	Physics	1.0	1.0
S103	Earth Science	1.0	1.0
S104	Environmental Studies	1.0	1.0
S105	Chemistry	1.0	1.0
S108	Science Lab	0.0	0.0
S300	Honors Physics	1.2	1.0
S301	Honors Biology	1.2	1.0
S302	Honors Chemistry	1.2	1.0
S303	Human Anatomy & Physiology	1.2	1.0
S500	AP Biology	1.4	1.0
S501	AP Chemistry	1.4	1.0
S502	AP Physics B	1.4	1.0

SUGGESTED SEQUENCES IN SCIENCE

Traditional Academics	*Technical Academics*
Grade 9:	*Grade 9*:
Physical Science 9 **or**	Physical Science 9 **or**
CP Physical Science **or**	CP Physical Science **or**
Honors Biology	Honors Biology
Grade 10:	*Grade 10*:
Biology **or** Honors Biology	Biology **or** Honors Biology
Honors Physics **or** Physics	Honors Physics **or** Physics
Grade 11:	*Grade 11*:
Biology	Biology
Physics **or** Honors Physics	Physics **or** Honors Physics **or**
Chemistry **or** Honors Chemistry	Chemistry **or** Honors Chemistry
Electives	Electives
Grade 12:	*Grade 12*:
Earth Science	Earth Science
Chemistry or Honors Chemistry	Chemistry **or** Honors Chemistry
AP Electives	Environmental Studies **or**
Environmental Studies	Earth Science
Earth Science	Human Anatomy and Physiology
Human Anatomy and Physiology	

*Higher level courses available based on prerequisites

SCIENCE DEPARTMENT

It is the recommendation of the science department that students complete one course in biology, physics, and chemistry. The recommended sequence is biology first, physics second and chemistry as the third core science. It is also recommended that students schedule an elective to complete their science education at CASHS.

BIOLOGY

S101 *1 Credit*

PREREQUISITE**:** None

Biology is a basic introductory course. The course surveys a variety of subjects in the life sciences. Major topics include cell structure and function, biochemistry, genetics, organisms and diversity. Textbook knowledge, problem solving, and laboratory experiences are all considered important parts of the learning process in this course. Students who intend to enter various fields of employment or other non-academic fields after graduation should select this course. A course in biology is required for graduation.

HONORS BIOLOGY

S301 *(1.2 weight)* *1 Credit*



PREREQUISITE: 9th grade - satisfactory completion of 8th grade accelerated Earth/Physical science; satisfactory completion of Algebra I; concurrent Geometry; 10th grade: satisfactory completion of Algebra I; at least a "C" in CP Physical Science, concurrent Geometry

Students enrolled in Honors Biology will receive instruction in the same basic life science topics as listed under the Biology-

S101 description. Problem solving, textbook materials and laboratory experiences are also considered essential components of the learning process. However, topics in the Honors class will be covered in greater depth and with higher academic expectations of the student. Students who intend to enter college and pursue a science-related career should select this biology course**.** A course in biology is required for graduation.

PHYSICS

S102 *1 Credit*

PREREQUISITE: Satisfactory completion of Algebra I; concurrent Geometry

The intent of this course is to help students better understand the "why" of things in science and provide information on a variety of physical topics. The course includes a detailed and mathematical based study of how forces, masses, velocity, acceleration, and distances are related. Demonstrations and laboratory exercises are used to help students understand these important relationships. Included in the course content are units of work dealing with waves and light. This course, with both descriptive and mathematical aspects, requires the student to have mastery of the solution processes involved with algebraic equations, successful experience in solving "word" problems, as well as abstract & critical thinking skills. While not required as a PREREQUISITE, additional mathematical and manipulation skills such as use of trigonometry and experimental data analysis is included as a part of this course.

HONORS PHYSICS

S300 *(1.2 weight)* *1 Credit*

PREREQUISITE: Satisfactory completion of Geometry; concurrent Algebra II

The intent of this course is to prepare the accelerated math/science student for advanced science courses and provide a complete coverage of all topics normally a part of a college level introductory physics course. Abstract and critical thinking and problem solving abilities along with effective organizational skills will be needed. Due to the pace of the course, the student **must** be mathematically strong and able to solve symbolic algebraic equations and "word" problems with ease. Major topics include: methods of physics, mechanics, behavior of matter, wave behavior, light & sound properties, forces, work & energy, electrical properties of matter, and momentum. The use of a calculator and/or computer will be required. Students must complete formal lab reports.

CHEMISTRY

S105 *1 Credit*

PREREQUISITES: Satisfactory completion of Algebra I; Geometry (may be concurrent); completion of Physics is recommended

Intriguing activities introduce students to the world of chemistry. Students learn chemical facts and concepts using an application-based approach to learning. One of the goals of the course is to foster educated and informed decisions regarding chemical issues facing today's society. Demonstrations and laboratory activities link abstract concepts to concrete observations. Topics of study include: matter & measurement; atomic structure; nomenclature; chemical reactions; solutions; stoichiometry; chemical bonding; gases; thermo chemistry; petroleum; food chemistry; and nuclear chemistry.

HONORS CHEMISTRY

S302 *(1.2 weight)* *1 Credit*

PREREQUISITES: Satisfactory completion of Geometry; Honor's Physics (may be concurrent), concurrent Algebra II

The Honors Chemistry course is designed to give students an understanding of the basic principles of chemistry. It does so with emphasis upon the most enjoyable aspect of chemistry-the laboratory experience. Chemical principles and descriptive chemistry are carefully balanced and illustrated by demonstrations and laboratory activities. A meaningful and coherent course includes kinetic theory, bonding, acid-base chemistry, redox chemistry, chemical equations, atomic & electronic structure, thermochemistry, intermolecular forces, and the behavior of gases.

Additional topics may be introduced at appropriate times.

EARTH SCIENCE

S103 *1 Credit*

PREREQUISITES**:** Completion of Biology

The earth science course is divided into four basic areas of study: astronomy, geology, meteorology, and hydrology and oceanography. A general review of each area is explored. An emphasis is placed on relating these Earth Science concepts to our Pennsylvania environment and composition.

ENVIRONMENTAL STUDIES

S104 *1 Credit*

PREREQUISITES: Completion of a course in Biology

This course is designed to study the basic concepts of human ecology, such as population, natural resources, pollution, and current issues of environmental concern. This course is offered in partnership with HACC as a College in the High School course.

AP BIOLOGY

S500 *(1.4 weight)* *1 Credit*

PREREQUISITE: Completion of Honors Biology with at least a "B"; completion of a Chemistry course, may be concurrent; Seniors Only

The AP Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year of college. The two main goals of AP Biology develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. The primary emphasis will be on developing an understanding of concepts rather than memorizing facts and technical details. Students will gain personal experience in scientific inquiry, recognition of unifying themes that integrate the major topics of biology, and application of biological knowledge and critical thinking to environmental and social concerns. Three general areas will be covered in AP Biology. The general areas are: molecules and cells, heredity and evolution, and organism and populations. Laboratory work will be performed to encourage the development of important skills such as detailed observations, accurate recording, experimental design, manual manipulation, data interpretation, statistical analysis, and operation of technical equipment. A summer assignment may be required. Check with colleges and universities regarding policy on AP exam scores.

HUMAN ANATOMY & PHYSIOLOGY

S303 *(1.2 weight)* *1 Credit*

PREREQUISITES: Completion of Biology with at least a "B"; elective for juniors and seniors

The Human Anatomy & Physiology course is designed for students considering a medical or health-field career. Organization of the human body is discussed using anatomical and physiological terminology. The integument, nervous, endocrine, circulatory, respiratory, and reproductive systems are examined. Structure and function, locomotion and support, metabolism, and defense mechanisms are also included in the course of study. This course is offered in partnership with HACC as a College in the High School course. Information concerning this option is mailed prior to the start of school.

AP CHEMISTRY

S501 *(1.4 weight)* *1 Credit*

PREREQUISITE**:** Completion of Honors Chemistry with at least a "B"

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. The course should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course should contribute to the development of a student's ability to think clearly and express ideas, orally and in writing, with clarity and logic. A summer assignment may be required. Check with college and universities regarding policy on AP exam scores.

AP PHYSICS B

S502 *(1.4 weight)* *1 Credit*

PREREQUISITE: Completion of Honors Physics with at least a "B";

The AP Physics B course is designed to be representative of courses commonly offered in colleges and universities. The aim of the AP Physics B course is to develop a basic knowledge of the discipline of physics, including an understanding of the phenomena, theories, and techniques of physics. The ability to ask physical questions and to obtain solutions to physical questions by use of physical intuition, experimental investigation, and formal logic will be developed. Students will be asked to read, understand, and interpret physical information verbal, mathematical, and graphical; describe and explain the sequence of steps in the analysis of a particular physical phenomenon or problem; use basic mathematical reasoning-arithmetic, algebraic, geometric, or trigonometric where appropriate-in a physical situation or problem; perform experiments and interpret the results of observations, including making an assessment of experimental uncertainties. It is assumed that the student is familiar with algebra and basic trigonometry. The AP Physics B course should provide the foundation in physics for students in life sciences, pre-medicine, engineering, and applied sciences as well as other fields not related to science. Topics of study include: waves and optics, electricity and magnetism, thermodynamics, modern physics, and a review of mechanics. Check with college and universities regarding policy on AP exam scores.

SOCIAL STUDIES MASTER COURSE LISTING

Course No.	Course Title	Weighted Value	Credit Value
H100	World History	1.0	1.0
H101	CP World History	1.0	1.0
H102	American History	1.0	1.0
H103	CP American History	1.0	1.0
H104	Economics	1.0	0.5
H105	Sociology	1.0	0.5
H106	Psychology	1.0	0.5
H109	Civics	1.0	0.5
H500	AP United States History	1.4	1.0
H501	AP European History	1.4	1.0
H502	AP Psychology	1.4	1.0
H503	AP American Government and Politics	1.4	1.0
H504	AP Macroeconomics	1.4	1.0

SUGGESTED SEQUENCES IN SOCIAL STUDIES

Traditional Academics

***Grade 9*:**

Early American History

Grade 10:

CP World History **or**
World History

***Grade 11*:**

American History **or**
CP American History **or**
AP American History
Elective choices below

***Grade 12*:**

Elective: (based on graduation requirements)
Psychology
Sociology
Civics
AP Psychology
AP American Government and Politics
AP Economics
Economics
AP European History

Technical Academics

***Grade 9*:**

Early American History

***Grade 10*:**

CP World History **or**
World History

***Grade 11*:**

American History **or**
CP American History
Elective choices below

***Grade 12*:**

American History **or**
CP American History **or**
Civics
Elective:
Psychology
Sociology
Economics

SOCIAL STUDIES DEPARTMENT

WORLD HISTORY

H100 *1 Credit*

PREREQUISITE: None

World history provides an indepth examination of the modern histories of Europe, Africa, The Middle East, and Asia since 1450 A.D. Students will examine traditional life, the impact of global connections, and the modern era in each of these regions. Students will be exposed to diverse historical perspectives on major events in world history. Required course for graduation.

CP WORLD HISTORY

H101 *1 Credit*

PREREQUISITE: Recommended A or B in English 9A or A in English 9B



See WORLD HISTORY for course description. This course is designed especially for students who have chosen the college preparatory curriculum. Stress is placed on the elements necessary for success in a college environment. For example, active reading,

note taking and listening in class are basic skills students will be expected to acquire and demonstrate. Students should be aware that performance will be evaluated according to an academic standard. Required course for graduation.

AMERICAN HISTORY

H102 *1 Credit*

PREREQUISITE: None

American history is a survey course, which begins with 1914 and continues to the present. Students should gain an understanding of the meaning of past events to American history. Political themes and geographical knowledge are stressed. Students should come to develop an appreciation of their heritage through the study of the experiences of those who help shape the country. Required course for graduation.

CP AMERICAN HISTORY

H103 *1 Credit*

PREREQUISITE: Recommend A or B in World History

This course is designed to meet the needs of the college bound student covering the time period of 1914 to present. It is a survey course presented in a chronological context. Emphasis is placed on exploring the concepts and issues that are a part of the American experience. Material is presented and evaluated in a manner that encourages the development of academic skills that are essential for success in college. Written expression of ideas, analytical thinking and note taking are examples of those requisite skills. Required course for graduation.

AP UNITED STATES HISTORY

H500 *(1.4 Weight)* *1 Credit*

PREREQUISITE: Completion of summer assignment

The Advanced Placement United States History course is designed for qualified students who wish to complete studies in secondary school equivalent to college introductory courses. College credit can be attained by achieving a qualifying grade on the AP exam administered nationwide in May. The course is structured to strike a balance between a survey approach, which teaches factual knowledge, and an interpretive format, which emphasizes critical analysis. A variety of resources are employed, including a general text, foreign policy text, several collections of primary sources and a number of monographs. Students must be able to take notes from printed material, lectures and video documentaries. It is also essential that students be able to express themselves with clarity and precision. AP course may have summer assignments. Due to possible scheduling conflicts, students may have to choose among the various AP offerings. Taking an AP course does not automatically guarantee that a student will score high enough to receive AP credit on the college level. Check with individual colleges for their policy on AP exam scores.

Students enrolled in this course are eligible to receive HACC credit through the College in the High School Program. To receive HACC credit, students must meet HACC eligibility requirements; which includes a placement test. Students not meeting HACC requirements are still eligible for the course.

AP EUROPEAN HISTORY

H501 *(1.4 Weight)* *1 Credit*

PREREQUISITE: Completion of summer assignment

This course offers the student a detailed study of European history from the period of the Renaissance and Reformation to modern times. The first semester concentrates on Europe through the 19th century while the second semester focuses upon developments in the 20th century. The countries of Great Britain, France, Russia, Prussia/Germany are studied in detail. Nationalism, Imperialism, Militarism, The Industrial Revolution and other movements are emphasized. A detailed written or oral report is a course requirement along with a biographical research problem. Students are encouraged to take the Advanced Placement test in May in European History. A satisfactory grade in this exam can earn up to six credits that are transferable to most colleges and universities. AP course may

have summer assignments. Due to possible scheduling conflicts, students may have to choose among the various AP offerings. Taking an AP course does not automatically guarantee that a student will score high enough to receive AP credit on the college level. Check with individual colleges for their policy on AP exam scores.

ECONOMICS

H104 *.5 Credit*

PREREQUISITE: Fine Arts and Humanities Pathway Elective

The purpose of this course is to provide the student with an introduction to the basic principles of economics. In a world where most of the contemporary problems confronting mankind are essentially economic in nature, an understanding of analytical tools and general economic principles is a fundamental part of sound academic preparation. The course will provide the student with information that is practically useful both in the conduct of his personal affairs and in his general role as a citizen. Topics and issues to be presented include production and consumption activities in a modified capitalistic system, forms of business enterprise--from proprietorship to corporation, the role of labor and government, money and banking functions and specialized economic problems of contemporary society.

SOCIOLOGY

H105 *.5 Credit*

PREREQUISITE: Fine Arts and Humanities Pathway Elective

This course is designed to acquaint students with man's behavior in society through the study of patterns of group behavior. Concentration will be upon basic values and the norms and institutions, which reflect these values. Problem areas in current society will be highlighted.

PSYCHOLOGY

H106 *.5 Credit*

PREREQUISITE: Fine Arts and Humanities Pathway Elective; Successful completion of Biology, Juniors and Seniors have priority in scheduling.

Psychology is an elective survey course. The course provides a general introduction to the field of psychology for students who want some background in and understanding of the subject. Areas of study encompass a wide range of topics including the psychology of sensation and perception, intelligence, behaviorism, dreams and dream theory, abnormal behavior, life span psychology, stress and theories of personality. Students will gain some insight into the major trends, theories, important individuals and vocabulary associated with the field as we look at different approaches to the question of why people act as they do.

CIVICS

H109 *.5 Credit*

PREREQUISITE: None

This course will cover the early formation of the US Government with an emphasis on the US Constitution, the three branches of government and the election process. Students are required to attend a local government meeting. There will also be a current events component incorporated into the semester.

AP PSYCHOLOGY

H502 *(1.4 Weight)* *1 Credit*

PREREQUISITE: Recommend completion of AP Psychology Summer Assignments, Average grade of C or higher in Biology, CP English, or CP Social Studies. Juniors and Seniors will have priority for scheduling.

AP Psychology is an elective survey course for students who intend to take the Advanced Placement test or who want to acquire helpful background in preparation for academic careers in which some basic understanding of psychology is necessary – nursing, law enforcement, physical/occupational therapy, education, law, etc. The course is approached as a discipline and follows the suggested guidelines promoted by the College Board and the American Psychological Association, which states the purpose of the course, should be "To introduce the AP student to the systemic and scientific study of the behavioral and mental processes of human beings and other animals." Areas of

study are the same as those in General Psychology, but are more concentrated. Students are expected to become conversant with the vocabulary, history, and theory and practice of psychology. In-depth readings, reaction/analysis assignments and practice essays will contribute to the acquisition of that knowledge. AP course may have summer assignments. Due to possible scheduling conflicts, students may have to choose among the various AP offerings. Taking an AP course does not automatically guarantee that a student will score high enough to receive AP credit on the college level. Check with individual colleges for their policy on AP exam scores.

AP AMERICAN GOVERNMENT AND POLITICS

H503 (1.4 Weight) 1 Credit

PREREQUISITE: Recommend completion of CP World History with a B average or higher, enrolled in or successfully completed CP/AP American History, Junior or Senior Year; Completion of summer assignment.

This AP course is designed to allow the student to develop a better understanding of our government through: examining how our government was established; the three branches of our government and their roles; the role of political parties, interest groups and the mass media; public policy making; the role of citizens within the government; and civil right and liberties. Students are encouraged to take the Advanced Placement test in May. A satisfactory grade in this exam may allow the student to earn college credits. Students will need to check with individual colleges and universities for policies involving exam scores and credit. The AP course may require the student to have summer assignments. The Social Studies department offers various AP courses, which may create scheduling conflicts causing the student to choose from the courses offered.

AP MACROECONOMICS

H504 *(1.4 Weight)* 1 Credit

PREREQUISITE: Recommend completion of CP World History with a "B" average or higher, enrolled in or successfully completed CP/AP American History; Completion of summer assignment. Open to juniors and seniors.

The purpose of an AP course in Macroeconomics is to give students a thorough understanding of the principles of economic system as a whole. Particular emphasis is placed on the study of national income and price determination. The course also develops student familiarity with economic performance measures, economic growth, and international economics. Students are encouraged to take the Advanced Placement test in May. A satisfactory grade in this exam may allow the student to earn college credits. The AP course may require the completion of summer assignments.

TECHNOLOGY EDUCATION MASTER COURSE LISTING

Course No.	Course Title	Weighted Value	Credit Value
T100	Wood Technology I	1	0.5
T101	Wood Technology II	1	0.5
T103	Manufacturing and Enterprise	1	0.5
T104	Power & Energy Technology	1	0.5
T105	Technical & Computer Assisted Drawing I	1	0.5
T106	3-D Solid Modeling	1	0.5
T107	Residential Architectural Drawing	1	1.0
T108	Commercial Design Architect	1	1.0
T109	Computer Graphic Design in the Media	1	0.5
T110	Photography	1	0.5
T111	Electricity and Electronics	1	0.5
T112	Human Biotechnology	1	0.5
T113	Automation and Robotics Technology	1	0.5

SUGGESTED SEQUENCES IN TECHNOLOGY EDUCATION

Traditional Academics	*Technical Academics*
Grade 9:	*Grade 9*:
Technology Education	Technology Education
Grade 10:	*Grade 10*:
Computer Drawing & Technical Design	Computer Drawing & Technical Design
Wood Technology I	Wood Technology I
Power & Energy Technology	Power & Energy Technology
Computer Design in the Media	Computer Design in the Media
Grade 11:	*Grade 11*:
Residential Architectural Drawing	Residential Architectural Drawing
Wood Technology II	Wood Technology II
Manufacturing and Enterprise	Manufacturing and Enterprise
Computer Design in the Media	Computer Design in the Media
Electricity and Electronics	Electricity and Electronics
Power & Energy Technology	Power & Energy Technology
Computer Drawing & Technical Design	Computer Drawing & Technical Design
3-D Solid Modeling	3-D Solid Modeling
Human Biotechnology	Human Biotechnology
Automation and Robotics Technology	Automation and Robotics Technology
Grade 12:	*Grade 12*:
Residential Architectural Drawing	Residential Architectural Drawing
Commercial Design Architect	Commercial Design Architect
3-D Solid Modeling	3-D Solid Modeling
Manufacturing and Enterprise	Manufacturing and Enterprise
Computer Design in the Media	Computer Design in the Media
Photography	Photography
Electricity and Electronics	Electricity and Electronics
Computer Drawing & Technical Design	Computer Drawing & Technical Design
Human Biotechnology	Human Biotechnology
Automation and Robotics Technology	Automation and Robotics Technology

TECHNOLOGY EDUCATION DEPARTMENT

WOOD TECHNOLOGY - Level I

T100 **.***5 Credit*

PREREQUISITE: None

A project centered course in basic woodworking offered to all students. Emphasis will be placed on the development of basic knowledge, skills, and safety practices using contemporary woodworking equipment. Units of study include: harvesting and milling of trees, planning and designing wood products, cutting and forming wood using hand and machine tools, joining wood, and finishing wood products. Students will work in teams to produce their projects, which include: wall shelves, puzzles, picture frames, jewelry boxes and other similar products.

.WOOD TECHNOLOGY – Level II

T101 *.5 Credit*

PREREQUISITE: Wood Technology I

A project centered course in intermediate level woodworking. Intermediate tool and machine techniques will be applied in the design and construction of wood products. Project work includes the production of chairs, stools, small tables and bookcases. Other units of study include basic woodturning on a lathe, laminating and bending wood.

MANUFACTURING & ENTERPRISE

T103 *.5 Credit*

PREREQUISTE: Wood Technology I with a minimum grade of a "C".

This course is designed to familiarize students with the resources and skills needed to establish and maintain an efficient manufacturing business. Students will design and mass-produce a useful product for market. Various aspects of manufacturing will be explored such as: safety, management, research and product development, production, and marketing. Students will also be briefly exposed to the world of automation and the role that robotics plays in manufacturing. This course is highly recommended for students contemplating a career in business or management.

POWER & ENERGY TECHNOLOGY

T104 *.5 Credit*

PREREQUISITE: None

This course is designed to explore how energy is used to generate power in our world. Energy sources from the past, present and near future will be explored. Students will be introduced to the principles and theories related to power technology as well as becoming familiar with the following forms of energy: fossil fuels, nuclear energy, solar energy, wind power, and fuel cell technology. Activities will include videos, mechanical demonstrations, group and individual projects. This is an introductory Technology Education course recommended for all levels.

COMPUTER DRAWING & TECHNICAL DESIGN

T105 *.5 Credit*

PREREQUISITE: None

An introductory course for all students. Topics include: engineering drawing techniques, technical drawing instruments, computer-assisted drawing using AutoCAD software. Emphasis is placed on applying engineering drawing techniques as a form of communication in a technological world.

3-D SOLID MODELING

T106 *.5 Credit*

PREREQUISITE: Computer Drawing & Technical Design with a minimum grade of a "B".

Students will apply knowledge and skills learned in the introductory drawing course. Students will solve engineering problems using AutoCAD INVENTOR 3-dimensional design software. Emphasis is placed on developing higher-level technical communication skills.

RESIDENTIAL ARCHITECTURAL DRAWING

T107 *1 Credit*

PREREQUISITE: None

Students design and draw a set of house plans. Students will develop their plans using a variety of media including AutoCAD software for computer-assisted drawing. Emphasis will be placed on spatial relationships and solving construction problems.

COMMERCIAL DESIGN ARCHITECTURAL

T108 *1 Credit*

PREREQUISITE: Residential Architectural Drawing with a minimum grade of a "B".

This course is designed for the student interested in a career as a designer, architect, engineer, or other technical design professions. The activities in this course build upon skills students learned in residential architectural drawing. Students will design a commercial business plan using AutoCAD software.

COMPUTER DESIGN IN THE MEDIA

T109 *.5 Credit*

PREREQUISITE: None

A project centered course where students explore graphic design using the Adobe Creative Suite of software. Emphasis is placed on learning the basic skills of: image editing using Adobe Photoshop software, computer illustration using Adobe Illustrator software, and page layout using Adobe InDesign software. Applied design projects include logo and letterhead design; promotional brochures, posters and flyers; newsletter and magazine layouts.

PHOTOGRAPHY

T110 *.5 Credit*

PREREQUISITE: Juniors and Seniors Only



This course is designed to equip the student with the basic skills needed in all phases of the photographic process. Camera operation, with emphasis on proper exposure and composition, will be stressed. Students will develop darkroom skills by completing various assignments using black and white film. Digital photography and Adobe PhotoShop will also be explored.

ELECTRICITY & ELECTRONICS

T111 *.5 Credit*

PREREQUISITE: Power & Energy Technology with a minimum grade of a "B" or the recommendation of your guidance counselor. This is an introductory course for students interested in learning about electronics used in consumer products and engineering. Topics include: AC and DC circuits, motors, controls and power supply units will be explored. Students will also be briefly exposed to the world of HVAC technology, automation and the role electronics plays and industrial robotics. Emphasis will be placed on: circuit calculation, testing, wiring and troubleshooting. Course will conclude with a final project utilizing the fundamental knowledge gained in the course in "Battle-bot" team competitions. This course is highly recommended for students contemplating a career in science, engineering, or industrial related fields.

HUMAN BIOTECHNOLOGY

T112 *.5 Credit*

PREREQUISITE: Offered to juniors and seniors who have successfully completed a course in Biology, Physics or Chemistry with at least a "C"

Emphasis will be placed on applying the basic knowledge and skills acquired in these courses to gain a better understanding of Human Biotechnology. This course is designed to familiarize students with present technologies and advancements used in the fields of: personal safety, allied health care, medicine, and criminal justice. Highlights of the course are a mix of actual hands on projects, research, and guest speakers. Environmental safety, Crime Scene Investigation (CSI) and forensic evidence gathering are among the many other topics be explored. Biotechnology is rapidly becoming very popular in progressive Technology Education programs across the country. This course is highly recommended for students contemplating a career pathway oriented toward: allied health care, medicine, engineering, and criminal justice.

AUTOMATION & ROBOTICS TECHNOLOGY

T113 *.5 Credit*

PREREQUISITE: Recommended for juniors and seniors who have successfully completed Power & Energy Technology, Electricity/Electronics Technology or A+ Computer with a grade of "B" or better in these courses.

Emphasis will be placed on applying the basic understanding and skills acquired in these courses. Students will be familiarized with the ever-evolving importance of robotics in industry, aerospace, military, and even criminal justice. Project work will be focused on the use of hydraulics, pneumatics, and or electricity as the sources of power in competitive and collaborative group robotic projects ("robot wars" &"disarm" simulation). Students will learn to program robots using programming languages. Various types of input/output sensors are used. This course is highly recommended for students pursuing career pathways oriented toward industry, engineering, or the military.

WORLD LANGUAGE MASTER COURSE LISTING

Course No.	Course Title	Weighted Value	Credit Value
F102	German I	1.0	1.0
F103	German II	1.0	1.0
F104	Spanish I	1.0	1.0
F105	Spanish II	1.0	1.0
F300	Honors Latin I	1.2	1.0
F301	Honors Latin II	1.2	1.0
F302	Honors Latin III	1.2	1.0
F305	Honors French III	1.2	1.0
F306	Honors German I	1.2	1.0
F307	Honors German II	1.2	1.0
F308	Honors German III	1.2	1.0
F309	Honors Spanish I	1.2	1.0
F310	Honors Spanish II	1.2	1.0
F311	Honors Spanish III	1.2	1.0
F500	AP Latin	1.4	1.0
F501	AP French	1.4	1.0
F502	AP German	1.4	1.0
F503	AP Spanish	1.4	1.0

SUGGESTED SEQUENCES IN WORLD LANGUAGE

Traditional Academics	*Technical Academics*
Grade 9:	*Grade 9*:
Spanish I **or** Honors Spanish I **or** II	Spanish I
German I **or** Honors German I **or** II	German I
French I **or** Honors French I **or** II	French I
Honors Latin I **or** II	Honors Latin I
Grade 10:	*Grade 10*:
Spanish I **or** II **or** Honors Spanish I **or** II **or** III	Spanish I **or** II
German I **or** II **or** Honors German I **or** II **or** III	German I **or** II
Honors French III	Honors Latin I **or** II
Honors Latin I **or** II **or** III	
Grade 11	*Grade 11*
Honors Spanish I **or** II **or** III **or** AP*****	Spanish I **or** II **or** Honors Spanish II
Honors German I **or** II **or** III **or** AP *****	German I **or** II **or** Honors German II
Honors French III **or** AP*****	Honors Latin I **or** II **or** III
Honors Latin I **or** II **or** III **or** AP*****	
Grade 12	*Grade 12*
Elective (based on graduation requirements) Language courses may be continued or a new language may be started in these years.	Elective (based on graduation requirements) Language courses may be continued or a new language may be started in these years.

WORLD LANGUAGE DEPARTMENT

MODERN WORLD LANGUAGES

FRENCH, GERMAN, SPANISH

LEVEL I *1 Credit*

PREREQUISITE: None

This course introduces the student to the basic vocabulary and expressions, the rules of pronunciation, and the grammatical structures of the language. An introduction to the culture of the people is also covered.

LEVEL II *1 Credit*

PREREQUISITE: Level I with at least a "C" Average

This course reviews the basic vocabulary and grammar learned in the first level of the language. Grammar and vocabulary are expanded through work with reading selections. More emphasis is placed on the student's reading and writing ability and the culture of the people is also stressed.

HONORS LEVEL I

(1.2 Weight) *1 Credit*

PREREQUISITE: "A" or "B" Average in CP or Honors English or native speaker

This course introduces the student to the vocabulary and expressions, the rules of pronunciation, and the grammatical structures of the language. An introduction to the culture of the people is also covered. The course is designed to present the material in greater depth at a faster pace for the language learner who intends to continue language study during multiple years culminating in AP study.

HONORS LEVEL II

(1.2 Weight) *1 Credit*

PREREQUISITE: Honors I or II with at least a "C" Average

This course reviews the vocabulary and grammar learned in the first level of the language. Grammar and vocabulary are expanded through work with reading selections. More emphasis is placed on the student's reading and writing ability and the culture of the people is also stressed. The course is designed to present the material in greater depth at a faster pace for the language learner who intends to continue language study during multiple years culminating in AP study.

HONORS LEVEL III

(1.2 Weight) *1 Credit*

PREREQUISITE: Honors II with at least a "C" Average

This course reviews the vocabulary and grammar learned in Honors I and II of the language. Additional grammar points and vocabulary are studied in greater depth and detail. Students will read longer selections that include cultural material. Students are encouraged to express themselves through speaking and writing. This level is designed to continue the acceleration of language study in preparation for the AP study.

AP FRENCH

F501 *(1.4 Weight)* *1 Credit*

PREREQUISITE: Recommend Honors French III with at least a "C" average

The AP French course emphasizes the use of language for active communication through the development of: the ability to understand spoken French in various contexts; a French vocabulary sufficiently ample for reading newspaper and magazine articles, literary texts, and other non-technical writings without dependence on a dictionary; and the ability to express oneself coherently, resourcefully, and with reasonable fluency and accuracy in both written and spoken French. The course work is intense and designed for students who are independent and highly motivated. The AP course may have summer assignments. Students showing superior ability in the course are encouraged to take the AP French Language test offered by the College Board in May, although taking the AP course does not guarantee that a student will score high enough to receive AP credit at the college level. Students should check with individual colleges for the policy on AP exam scores.

AP GERMAN

F502 *(1.4 Weight)* *1 Credit*

PREREQUISITE: Recommend Honors German III with at least a "C" average

The AP German course emphasizes the use of language for active communication through the development of the following competencies: having a strong command of vocabulary and structures; understanding spoken German in various conversational situations; reading newspaper and magazine articles, contemporary fiction, and non-technical writings without the use of a dictionary; and fluently and accurately expressing ideas orally and in writing. The course work is intense and designed for students who are independent and highly motivated. The AP course may have summer assignments. Students showing superior ability in the course are encouraged to take the AP German Language test offered by the College Board in May, although taking the AP course does not guarantee that a student will score high enough to receive AP credit at the college level. Students should check with individual colleges for their policy on AP exam scores.

AP SPANISH

F*503* *(1.4 Weight)* *1 Credit*

PREREQUISITE: Recommend Honors Spanish III with at least a "C" average

The AP Spanish Language course emphasizes the use of language for active communication through the development of: the ability to comprehend formal and informal spoken Spanish; the acquisition of vocabulary and a grasp of structure to allow the easy, accurate reading of newspaper and magazine articles, as well as Hispanic literature; the ability to compose expository passages; and the ability to express ideas who are independent and highly motivated.

The AP course may have summer assignments. Students showing superior ability in the course are encouraged to take will score high enough to receive AP credit at the college level. Student should check with individual colleges for their policy on AP exam scores.

CLASSICAL LANGUAGES
LATIN
HONORS LATIN I

F300 (1.2 Weight) 1 Credit
PREREQUISITE: Recommend at least an "A" or "B" Average in CP English or Honors English
Latin I emphasizes the basic grammar, vocabulary and culture of classical Latin. Translation and discussion involves mainly classical mythology, Roman entertainments, and the city of Rome.

HONORS LATIN II

F301 (1.2 Weight) 1 Credit
PREREQUISITE: Recommend Honors Latin I with at least a "C" Average
This course reviews the basic grammar and vocabulary learned in Level I. More advanced grammar, especially subordinate clauses is added. Students read stories from mythology and Roman history, in particular Jason and the Argonauts.

HONORS LATIN III

F302 (1.2 Weight) 1 Credit
PREREQUISITE: Recommend Honors Latin II with at least a "C" Average
This course covers the end of the Republic and the dictatorship of Julius Caesar. Authors read are Cicero, Sallust, Catullus, Ovid, and Julius Caesar. Comparisons are made with modern vocabulary, literature, oratory and history and the assistance of Latin in these areas is stressed.

AP LATIN

F500 (1.4 Weight) 1 Credit
PREREQUISITE: Recommend Honors Latin III with at least a "C" average
The AP Latin course consists of Vergil's *Aeneid*. In this course, the students will read, translate, understand, analyze and interpret the required sections of Vergil's *Aeneid*. The course work is intense and designed for students who are independent and highly motivated. The AP course will have a summer assignment. Students showing superior ability in the course are highly encouraged to take the AP Vergil Exam offered by the College Board in May, although taking the AP course does not guarantee that the student will score high enough to receive AP credit at the college level. Students should check with their individual colleges for their policy on AP scores.

FRANKLIN COUNTY CAREER AND TECHNOLOGY



ACADEMICS AND SHOP INFORMATION

FRANKLIN COUNTY CAREER AND TECHNOLOGY CENTER

Franklin County Career and Technology Center's curriculum blends the best of both worlds, providing technical and academic skills along with the practical training students need to complete for some of the most promising job opportunities. Students receive 2.5 credits per year for their Franklin County Career and Technology Center experience.

PACT Option Available at FCCTC

Partnership for Accelerated Career Training (PACT) is an option offered by Franklin County Career and Technology Center. The mission of Pact is to bridge the gap between high school and the workforce. This innovative four-year program (2 years high school /2 years college) has been developed by a team of vocational, academic, and post-secondary teachers, working together with a team of highly accomplished employers. PACT participants have the option of enrolling in programs such as:

- Automotive Technician
- Electronic Prepress Technician
- Industrial Maintenance Technician
- Certified Cook
- Machinist/Toolmaker Technician
- Heating, Ventilating and Air Conditioning (HVAC) Technician
- Certified Painter
- Dental Assistant

During the last two years of high school, students can earn credits and advanced standing toward an associate degree, while working as a paid employee in the field of their choice. Students' time will be divided among their high school, the Franklin County Career and Technology Center, and an actual worksite learning station. After graduation, students can enter an associate degree program, enroll in a registered apprenticeship program, achieve industry-certified credentials, or choose a combination of all three. Students can complete their associate degree and continue their studies at a four-year college.

Academic and FCCTC Shop Course Numbers

For description of courses, please refer to the academic portions of this booklet

GROUP I SHOP STUDENTS

Group I Academics

No.	Course Title
V002	Driving Simulator
V023	Driver Ed
V200	Biology
V202	Gen Science
V203	App Math B
V204	Wellness 10
V205	Read for Prof I
V206	Math for Prof I
V207	Read for Prof II
V208	Algebra II
V209	Geometry
V210	Int. Math I
V212	Math for Prof II
V213	CP English 12
V214	Algebra I
V215	CP English 11
V217	CP English 10
V219	Speech
V220	Driving
V222	CP World History
V224	CP AM History
V225	Wellness 11
V226	Wellness 12
V227	GeoEnviron Studies
V229	Math for Prof II
V230	Reading for Prof II
V250	Math for Prof III
V251	Read for Prof III
V252	RR English 10
V253	RR English 11
V254	RR English 12
V255	LS Study Hall
V256	Geo Envt
V257	Civics

Group I Shop

No.	Course Title
V800	Carpentry
V801	Electrical Occupations
V802	HVAC
V803	Masonry and Building Technology
V804	Plumbing Systems and Design
V805	Allied Health Careers
V806	Cosmetology
V807	Culinary Arts
V811	Machining
V812	Pre-Engineering
V813	Welding
V814	Distribution Technology
V816	Landscaping & Horticulture
V819	Marketing
V826	Computer Maintenance & Repair (A+)
V827	Basic Networking (Network+)
V828	Advanced Networking (CISCO)
V829	Electronics Related Technology
V830	Graphic Communications
V831	Agricultural Mechanics
V832	Auto Body Technology
V833	Automotive Technology
V834	Diesel Mechanics
V835	Culinary Arts
V836	Carpentry II
V837	Carpentry III
V843	Masonry II
V847	Allied Health II
V848	Allied Health III
V862	Ag Mechanics III
V867	Auto Technology
V869	B.T.C.

GROUP II SHOP STUDENTS

Group II Academics

No.	Course Title
V001	Driving Simulator
V013	Driver's Ed
V100	Biology
V102	General Sci
V103	App Math B
V104	Wellness 10
V105	Read for Prof I
V106	Math for Prof I
V107	Read for Prof II
V108	Algebra II
V109	Geometry
V110	Int. Math I
V112	Math for Prof II
V113	CP English 12
V114	Algebra I
V115	CP English 11
V117	CP English 10
V119	Speech
V120	Driving
V122	CP World History
V124	CP AM History
V125	Wellness 11
V126	Wellness 12
V127	GeoEnviron Studies
V129	Math for Prof II
V130	Reading for Prof II
V150	Math for Prof III
V151	Read for Prof III
V152	RR English 10
V153	RR English 11
V154	RR English 12
V155	LS Study Hall
V156	Geo Env
V157	Civics

Group II Shop Courses

No.	Course Title
V700	Carpentry
V701	Electrical Occupations
V702	HVAC
V703	Masonry and Building Technology
V704	Plumbing Systems and Design
V705	Allied Health Careers
V706	Cosmetology
V707	Culinary Arts
V711	Machining
V712	Pre-Engineering
V713	Welding
V714	Distribution Technology
V716	Landscaping & Horticulture
V719	Marketing Ed III
V720	Marketing
V725	Drafting/CAD
V726	Computer Maintenance & Repair (A+)
V727	Basic Networking (Network+)
V728	Advanced Networking (CISCO)
V729	Electronics Related Technology
V730	Graphic Communications
V731	Agricultural Mechanics
V732	Auto Body Technology
V733	Automotive Technology
V734	Diesel Mechanics
V735	Culinary Arts
V736	Carpentry II
V737	Carpentry III
V743	Masonry II
V747	Allied Health II
V748	Allied Health III
V762	Ag Mechanics III
V767	Auto Technology
V769	B.T.C.

FRANKLIN COUNTY CAREER AND TECHNOLOGY PROGRAMS
CONSTRUCTION

CARPENTRY

Group I – V700, Group II -V800 2.5 Credits
Learn basic and advances skills used in residential construction and cabinet making. Study and develop skills and techniques hand tools, portable power equipment, woods, machines, and leveling instruments. Learn to estimate materials, read blueprints and use the latest technology in the construction industry. Participate in apprenticeships where you'll acquire leadership skills while learning on the job. This course will prepare you for careers in residential and commercial construction, as well as various related careers, such as sales associates and level 1 management.

ELECTRICAL OCCUPATIONS

Group I–V701, Group II–V801 2.5 Credits
Learn electrical theory, residential house wiring, conventional and programmable motor controls, conduit work, single and three-phase wiring, pneumatics and robotics. Occupation requires solving electrical and mechanical problems, good eye-hand coordination and vision, working independently, reading instruction manuals, wiring diagrams and blueprints. Jobs for electricians exist in industrial and residential settings. Students are enrolled in the ABC apprenticeship and can also receive college credits at HACC.

HEATING, VENTILATION AND AIR CONDITIONING

Group I - V702, Group II -V802 2.5 Credits
Learn basic electrical wiring and safety procedures. Study refrigeration systems, heat pump theory and gas and oil heating systems, along with formulas for estimating materials. Occupation requires solving mechanical and electrical problems, good vision and eye-hand coordination, working with your hands, reading and following instruction manuals, and working well with customers and co-workers. Reading skills need to be close to textbook level. This program uses practical competencies, and the student **will be** required to read, understand, and then practice the practical side of the lesson. This needs to done with little or no help.

MASONRY AND BUILDING TECHNOLOGY

Group I-V703, Group II-V803 2.5 Credits
The masonry career field focuses on construction utilizing block, brick, stone and tile in residential, commercial and industrial buildings. Students receive instruction in laying concrete block and brick, composite walls, chimneys and fireplaces, paving, setting tile, stonework, drywall, plaster, stucco and concrete pouring/finishing. Other topics include the different types of mortar mixes, their strength and uses, reinforcement of masonry walls, masonry cleaning, weather protection for masonry, and estimating supplies and materials. Related construction and carpentry work as it applies to the masonry career field will also be included. All students completing the program will be eligible for a job site experiences and/or apprenticeship.



PLUMBING SYSTEMS AND DESIGN

Group I-V704, Group II-V804 2.5 Credits
The high-paying field of plumbing involves the installation and repair of water systems in residential, commercial and industrial buildings. Students will acquire skills such as equipment installation, system maintenance, repair and troubleshooting, soldering, PVC and metal pipe applications, and installation of fixtures such as sinks, showers, bathtubs and appliances. Other areas include blueprint reading, residential system design, job estimating, state and local plumbing codes, water and gas mains as well as related construction and carpentry work as it applies to the plumbing career field. The Plumbing program is certified by

the National Center for Construction Education and Research and is recognized by the Associated Builders and Contractors (ABC).

HEALTH AND HUMAN SERVICES

ALLIED HEALTH CAREERS

Group I-V705, Group II-V805 2.5 Credits



Participate in a three-level course that leads to certification in nurse assisting, medical assisting or dental assisting. Learn the basics of anatomy, patient care and medical practices in a hands-on setting. All tracks in Allied Health include a third year clinical experience.

Occupations in the health careers require a high level of maturity, responsibility and dependability. You will have contact with all types of people in a variety of situations.

COSMETOLOGY

Group I-V706. Group II-V806 2.5 Credits

Learn shampooing, scalp treatments, permanent waving, chemical styling, hair coloring, manicuring, facials, makeup, sanitation, artificial nails, salon management, and state laws. Practice on mannequins and on each other. Develop skills in the school's clinic, which is open to the public. Gain the skills and hours necessary to take the State Board Examination to become a licensed cosmetologist, cosmetician, or manicurist.

CULINARY ARTS

Group I –V707, Group II-V807 2.5 Credits

Learn to follow more than just a recipe; come and learn the techniques and skills needed in today's kitchen. Learn about food trends and the importance of food safety and sanitation. Prepare for your career in Food Service to become a chef, baker, cook, prep cook and/or a dining room server. Students learn the skills needed to handle the growing demands of the culinary business. The hospitality industry trends rank in the top ten for growth through the next decade. Come learn a career that can prepare you for a stable position for the rest of your life. If you are interested in cooking and baking, this program can give you a great start to a career in the hospitality business.

MANUFACTURING

MACHINING

Group I-V711, Group II-V811 2.5 Credits

Become skilled in precision measuring and inspection, advanced machining operations, CNC operation, CNC setup, basic programming and computer fundamentals. Learn basic math, blueprint reading, layout, measuring, inspection, and machine operation. Occupation requires good eye-hand coordination, working with a computer and numerical controlled equipment.

PRE-ENGINEERING

Group I - V712, Group II-V812 2.5 Credits

Study a new program using a nationally recognized engineering technology curriculum. Students will be introduced to principles of engineering, digital and computer integrated manufacturing. This program will allow high school students to determine if engineering is the career that they desire. Pre-Engineering could be taken as a three-year program, half day, or one or two-period block, depending on the circumstances.



WELDING

Group I-V713, Group II-V813 2.5 Credits

Learn how to join different metals, make welding repairs to broken metal items, and fabricate new structures. Study all major kinds of welding, including "stick" arc welding (SMAW), gas metal arc welding (MIG), gas tungsten are (TIG), flux cored arc (FACW), and oxyacetylene. Use Oxyacetylene and plasma torches to cut metals. Learn blueprint reading and welding symbols, weld testing and metal identification.

SALES AND SERVICE

DISTRIBUTION TECHNOLOGY

Group I-V714, Group II-V814 2.5 Credits

The program is competency based and is the study of logistics as applied to the five areas of transportation. Students learn warehousing, inventory control, material handling, order processing, location analysis and packaging. Students will have hands on participation in the daily functions of an actual distribution center, which compliments the operation of the school. Additional competencies emphasize procurement procedures, customer service, the Hazard Communication Standards, lift operator certification, and industrial safety and security.

LANDSCAPING AND HORTICULTURE

Group I-V716, Group II-V816 2.5 Credits

PREREQUISITE: None

Learn the parts and structure of a greenhouse and how to grow different seasonal crops, using several methods. Identification of interior plants, insects and greenhouse crops will be included in the course. Last but not least, learning will include floral design and identifying floral plants, including the care and sale of all products produced. Students will be required to identify landscape plants, tools, insects and the care of these areas.

MARKETING

Group I-V719, Group II-V819 2.5 Credits

PREREQUISITE: None

Course recommended for those individuals in working the world of business or owning their own business.

Students will gain an understanding of the skill necessary to operate a successful small business. Learning will occur in the areas of economics, product pricing, general marketing, employability skills and small business operations. Students will participate in the development and operation of a student run business.

TECHNOLOGY

COMPUTER TECHNOLOGY

Computer Maintenance and Repair

Group I-V726, Group II-V826 2.5 Credits

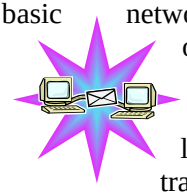
PREREQUISITE: Students should have advanced Math skills (Algebra I) to enter this program.

Students in the Computer Repair Program will learn how to assemble, upgrade, and install computer systems, perform preventative maintenance, and conduct diagnostic systems test. Students will be able to troubleshoot computer problems using diagnostic software and electronic test equipment. After completing this program, the student may be eligible to become A+ certified.

Basic Networking (Network+)

Group I-V727, Group II-V827 2.5 Credits

The Network + course will teach students basic networking fundamentals. Some of the topics covered include basic knowledge of networking, the physical layer, the data link layer, the transport layer, network topology, TCP/IP fundamentals, remote connectivity, maintaining and supporting the network, and troubleshooting the network. Students will construct various types of peer-to-peer and client-server networks as well as perform installation of network operating system software and network administration. After completing this program, the student may be eligible to become Network+ Certified.



Advanced Networking (CISCO)

Group I-V728, Group II-V828 2.5 Credits

PREREQUISITE: Computer Maintenance and Repair and Basic Networking or A+ and Network+ at the high school.

The CISCO Routing and Switching course is a web-based program that teaches students to install, configure, and operate simple-routed local area networks, routed wide area

networks and switches local area networks. Simple networks included are IP, IGRP, IPX, Serial, Apple Talk, Frame Relay, IP RIP, VLANs, IPX, RIP, Ethernet, and Access Lists. The course is based on a combination of training and hands-on experience that will prepare the student to do the following: install and/or configure a network, optimize WAN through Internet access solutions, provide remote access, and supporting the higher levels of performance required for new applications such as Internet commerce, multimedia, etc. After completing this program, the student may be eligible to become CISCO CCNA certified.

ELECTRONICS RELATED TECHNOLOGY

Group I-V729, Group II-V829 2.5 Credits
PREPREQUSITE: Successful performance on HACC Math Placement test
This is a self-paced, self-study course based upon competencies established by the National Coalition for Electronics Education. Good reading and math (Algebra I) skills are essential for success. You will learn about basic DC and AC electrical circuits, analog circuits (power supplies, amplifiers, oscillators, o-amps) and digital circuits. You will also learn how to make your own printed circuit boards and projects that are yours to keep. This course is part of the College in the High School (CHS) agreement between FCCTC and Harrisburg Area Community College (HACC), in which you can earn up to seven (7) college credits in electronics.

GRAPHIC COMMUNICATIONS

Group I-V730, Group II-V830 2.5 Credits
PREREQUISITE: None
Study the communications field, including graphic, production, computer-based design, photography and screen-printing. Learn press operation and print production. Use Photoshop, Illustrator and PageMaker software. Use Photoshop, Illustrator and PageMaker software. Screenprint T-shirts and other promotional items. Students should possess a creative mind and enjoy displaying ideas visually. This program requires a sense of design, some mechanical aptitude and a working knowledge of the computer.

TRANSPORTATION

AGRICULTURAL MECHANICS

Group I-V731, Group II-V831 2.5 Credits
Learn to maintain and repair all types of industrial, agricultural, and outdoor power equipment. Study the basics of welding and machine work. Study larger gas and diesel engines. Work on 4-wheelers, snow blowers, lawn mowers, chain saws, farm tractors and equipment. Occupation requires working with others, reading and following instructions, good eye-hand coordination and good math skills.

AUTO BODY TECHNOLOGY

Group I-V732, Group II-V832 2.5 Credits
This is a self-paced course based on competencies established by ICAR and NATEF. You will learn about basic metal straightening, plastic fillers, panel replacement and alignment, refinishing techniques, MIG welding, and how to estimate the cost of repairs. This program will prepare you for entry-level position in the collision repair field. Occupation requires working with others, reading and following instructions, good hand eye-hand coordination. Students completing the program will be eligible for job site experiences.

AUTOMOTIVE TECHNOLOGY

Group I-V733, Group II-V833 2.5 Credits
Gain skills for a rewarding career in the automotive industry. Learn four-wheel alignments, steering and suspension service, brake service, engine performance, electronic fuel injection and computer operational controls. PA safety inspection laws will be studied. Pass the required test and apply for your inspection license at age 18. Occupation requires solving mechanical and electrical problems while repairing automobiles.

DIESEL MECHANICS

Group I-V734, Group II-V834 *2.5 Credits*

Study the maintenance, repair, and parts adjustment of diesel engines, heavy-duty transmissions, drive assemblies, and other heavy truck systems. Gain entry-level job skills and "hands on" experience working with live, operable diesel engines, such as Caterpillar, Cummins, Mack, Detroit, General Motors, Mercedes Benz, Hata, Ford, Freightliner, Peterbilt, and Mitsubishi, along with the diagnostic equipment needed to maintain them.

NON-DISCRIMINATION POLICY

It is the policy of the Chambersburg Area School District not to discriminate on the basis of race, age, color, religion, sex, handicap, disability or national origin in its admission, educational programs, activities or employment policies. For further information regarding these policies or if you need assistance in completing any forms or applications, please contact:

Mr. Bill Hodge, Director of Human Resources at 261-3303 (TDD 261-3317).

Si Vd no habla inglés y no hay nadie que pueda llamar en su lugar, favor de llamar a 261-3316 (TDD 261-3317), y dejar su numero de telefono. Comunicaremos con Vd, en español lo más pronto posible.

REVISED: December 2008