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Title IX/SECTION 504 STATEMENT

Butler Area School District is an equal opportunity educational institution and will not discriminate on the basis of race, color, national origin, sex, age, or handicap in its activities, programs, or employment practices as required by Title VI, Title IX, and Section 504.

For information regarding civil rights or grievance procedures, contact Dr. Edward Fink, Title IX Coordinator, or Mr. Derek Craig, Section 504 Coordinator, at 110 Campus Lane, Butler, PA 16001, (724) 287-8721. For information regarding services, activities, and facilities that are accessible to and usable by handicapped persons, contact Mr. Derek Craig at (724) 287-8721.

**PROGRAM OF STUDIES
2011-2012 School Year**

Butler Area School District Website: www.butler.k12.pa.us

Senior High School
120 Campus Lane, Butler, PA 16001
(724) 214-3200

Intermediate High School
551 Fairground Hill Road, Butler, PA 16001
(724) 214-3400

**PHILOSOPHY AND PURPOSE
OF BUTLER HIGH SCHOOL**

The purpose of the high school is to help young people develop abilities enabling them

to accept the responsibilities that our democratic society expects: to acquire knowledge, be self-disciplined, tolerate and empathize with others, make sound political and moral decisions, earn a living, practice

American citizenship, accept the social responsibility to plan for future generations, adjust to change, and to respect and appreciate life. Along with the fundamental skills of literacy and the ability to understand desirable attitudes and behavior related to civic responsibility, it is important that students gain an appreciation for the fine and practical arts. Butler Area School District provides a unified comprehensive curriculum to prepare students for continuing education or for entering the work force. The District strives to instill a desire for further learning and to aid in the maturation process of the student academically, socially, and emotionally.

Ideally, school is not a place, but an activity in which students need to participate, directly and enthusiastically. Education is not something one gives another but is rather a self-directed, continuing process that serves the needs and interests of the individual within the community. Each individual, regardless of background, interests, or inherent abilities, deserves the chance to learn and succeed through school experiences. These educational experiences should provide opportunities for self-expression and individual creativity developed in an atmosphere based on cooperation and mutual respect among students, parents, teachers, administrators, and all members of the community it serves.

ADMINISTRATION

Superintendent.....Dr. Edward Fink
 Asst. Superintendent/7-12.....Dr. Michael Strutt

The services of the school psychologists are also available for any special testing which might be required for specific students.

A plan for every student is our goal; and we urge each one, together with his/her parents, to review carefully his/her individual plans with the counselor. Administrative personnel will assist with planning as opportunities arise. Any student who has an educational, vocational, or personal problem is encouraged to visit the Guidance Office and discuss it with a counselor. Students may

Asst. Superintendent/K-6.....Dr. Carolyn Cornish
 Asst. Superintendent for
 Personnel, Technology,
 Federal/State ProgramsMr. Jerry Slamecka
 Supv., Special Ed.....Mr. Derek Craig
 Asst. Supv. of Special Ed.....Mr. Aaron Royhab
 Sr. High Principal.....Mr. Jeffery Schnur
 Int. High Principal.....Dr. John Wyllie
 Sr. High Asst. Principal.....Mr. Doug Ford
 Sr. High Asst. Principal.....Mr. Brian Slamecka
 Int. High Asst. Principal.....Mrs. Mary McHattie
 Int. High Asst. Principal.....Mr. Glenn Raymer

**-- ACADEMICS --
 (Program of Studies & Curricula)**

We strongly urge students to plan their academic programs with goals in mind. Any requirements for post-secondary careers should be considered in course selections.

Career decisions should be made carefully and with the help of all resources available within the school: the school library, the guidance office materials, and the counselors themselves. When possible, students are encouraged to utilize community resources as well before making a career choice.

GUIDANCE PROGRAM

Every student in grades 9 through 12 has a counselor who is available to assist students and parents in planning programs of study for high school and post-high school needs. The counselors are also responsible for such special services as testing, college fair, career programs, assistance with plans for college, including information and help for those with financial problems, and personal adjustment.

stop before school or between classes and secure a guidance permit for an appointment with a counselor.

GUIDANCE STAFF

<u>Sr. High School</u>	<u>Int. High School</u>
Ms. Deb Hall	Mr. George Link
Mr. Mark Maloy	Mrs. Alecia Mowrey
Mrs. Angela Orbin	Mrs. Deborah Pichler

WITHDRAWALS

Any student withdrawing from school should report first to the guidance counselor for a brief exit interview and then to the Attendance Office. Arrangements can then be made for the student to fulfill any remaining obligations to the Butler Area School District. After the Guidance Office receives a request from the student's new school, a transcript of grades and other records can be sent.

SECONDARY GRADING POLICY PROCEDURE

The grading procedure in grades 9 through 12 should reflect a fair and consistent evaluation of a student's academic achievement.

During the first week of the course, the teacher will provide students with the following information pertaining to grades:

- Whether or not a final examination will be used and what value it will have on the final grade. Comprehensive semester exams will be administered in English, World Language, Mathematics, Science, and Social Studies classes.
- Assessment procedures such as achievement on tests and quizzes, class participation, evaluation of homework, research papers, and make-up policy resulting from absence will be used.

*** NEW FOR 2011-2012 ***

1. Keystone Exams will be administered in all levels of Algebra I, Biology, English 9, and English 10. As per state mandate, the Keystone Exam will be weighted 33% of the course grade.
2. At both the Intermediate and Senior High Schools, a student must complete the entire course in order to receive credit. Partial credit will not be awarded for any course, regardless of the quarterly grades achieved. This applies to both full year and semester courses.
3. For full year courses, final grades and credit will be issued at the end of the school year. In courses where a Keystone Exam is required, the final grade will be

calculated as an average of the four quarterly grades (weighted two-thirds) and the Keystone Exam grade (weighted one-third). Of the five grades issued in these courses (four quarterly grades and the Keystone Exam), a student must pass three.

4. For full year courses in which a Keystone Exam is not given, the final grade will be an average of the four quarterly grades. Semester exams in these courses will be included in the second and fourth quarter grades respectively.

5. In order to receive credit for a full year course in which a Keystone Exam is not given, a student must pass at least two quarterly grading periods - one each semester or both quarterly grading periods in the second semester.

6. Final grades for semester courses will be issued at the conclusion of the semester in which the course was taken. The final grade will be an average of the two quarterly grades achieved.

MARKING SYSTEM

*** NEW FOR 2011-2012 ***

Butler Area School District uses a five-letter grading system: A, B, C, D, E. Students should know the basis on which marks are determined and continually strive to meet the requirements. The following is the grading scale for the Butler Area School District.

A.....Superior.....	100% to 90%
B.....Above Average.....	89% to 80%
C.....Average/Fair.....	79% to 70%
D.....Lowest Passing Mark.....	69% to 60%
E.....Not Accepted For Credit.....	59 & Below

All subjects will be graded according to the above system. Any deviation in assigning letter grades based upon percentage equivalents must be approved by the building principal at the beginning of the grading period.

REPORT CARDS/ REPORT PERIODS

*** NEW FOR 2011-2012 ***

1.....Grades will be issued to students at the end of each quarterly (nine week) grading period. Students will receive a hand-carried report card on the last day of each quarter, and a computer-generated report card will be mailed home after all grades have been entered into the student grading system.

2. ...At both the Intermediate and Senior High Schools, a final course grade and credit is issued at the end of the school year for full year courses, and at the end of the semester for semester courses.

3. ...In full year courses where a Keystone Exam is required, the final grade will be calculated as an average of the four quarterly grades (weighted two thirds) and the Keystone Exam (weighted one third). Of the five grades issued in these courses (four quarterly grades and the Keystone Exam), a student must pass three.

4.....For full year courses in which a Keystone Exam is not given, the final grade will be an average of the four quarterly grades. Semester exams in these courses will be included in the second and fourth quarter grades respectively.

5.In order to receive credit for a full year course in which a Keystone Exam is not given, a student must pass at least two quarterly grading periods - one each semester or both quarterly grading periods in the second semester.

6.....Final grades for semester courses will be issued at the conclusion of the semester in which the course was taken. The final grade will be an average of the two quarterly grades achieved.

7.....Mid-quarter progress reports will be issued when a student is failing, is in danger of failing, or has dropped two or more letter grades since the previous

report card.

8.....Parents are expected to use their Edline internet activation code to continually monitor their student's academic progress throughout the school year. Parents may view grades and assignments, and send email messages to teachers via Edline.

UNIT OF CREDIT

Unit of Credit is a standardized measure of achievement devised and adopted by the Pennsylvania Department of Education to designate the quantity of work completed in individual subject fields.

CREDITS NECESSARY FOR PROMOTION

At the end of grade nine, a student must have earned at least three credits to be assigned to grade ten.

By the conclusion of grade ten, each student must have earned at least eight credits, four of which must be earned as follows, to be assigned to grade eleven:

Science (1)
Social Studies (1)
English (1)
Mathematics (1)

TOTAL (4)

Additionally, students will be encouraged to complete at least one-half credit of Physical Education by the conclusion of grade ten.

SUMMER SCHOOL

A program is available in the summer for those students who need to make up failures. Two classes may be completed during summer school.

Physical Education may also be taken in the summer as an accelerated course. Upon the recommendation of the school administration and physical education department, the

Board Education Committee has approved the following guidelines for summer school physical education:

1.....The District will offer as many classes as can be accommodated at the three secondary schools. Summer school will not be offered at elementary sites.

2.....If there are more requests than can be accommodated, registration will be by lottery.

3.....Students who schedule summer school physical education must have a full schedule for the fall and spring semesters of the upcoming school year. Once a student has taken summer school physical education, he or she will not be permitted to drop a class during the school year unless it is a drop/add approved by the principal.

4.....Students who elect summer school physical education will be expected to participate fully in all activities, including swimming. Students with medical conditions preventing them from swimming must submit documentation from a physician prior to the first day of class.

If you have any questions regarding the summer school physical education program, please contact your building principal.

POLICY ON REPEATED SUBJECTS

When a student passes a subject and chooses to repeat the course to increase his/her knowledge of that area, the following provisions apply when determining the quality point average: the grade given at the completion of the course the first time **and** the second time will be used. When a student fails a subject and repeats the course to obtain credit for it, the quality point for the "E," as well as the quality point for the passing grade are included in the student's final average.

CREDIT CHECK FOR GRADUATION

A.....Beginning in grade nine and continuing through grade twelve, guidance counselors will monitor each student's credit count and

notify students and parents of any credit deficiency.

B.....Students should make up failed courses as soon as possible to maintain the proper credit count. Early Bird classes and Summer School are options available for students to make up failed courses.

GRADUATION REQUIREMENTS

A minimum of 21.5 credits in the ninth, tenth, eleventh, and twelfth grade is required for graduation. Required subjects that are failed must be rescheduled and completed with passing grades.

In addition to the current graduation requirements, each student must demonstrate proficiency in reading and math on the Pennsylvania System of School Assessment (PSSA), or on a District assessment, or provide evidence of proficiency in reading and mathematics as determined by the District (Board approved 6/21/04).

KEYSTONE EXAMS

*** NEW FOR 2011-2012 ***

Keystone Exams are a required component of Pennsylvania's new system of high school graduation requirements. They are end-of-course assessments designed to assess proficiency in the subject areas of Algebra I, Algebra II, Biology, Chemistry, Civics and Government, English Composition, Geometry, Literature, U.S. History, and World History. Beginning with the graduating classes of 2015 and 2016, students must demonstrate successful completion of secondary level course work in Algebra I, Biology, and Literature. For the graduating classes of 2017 and beyond, requirements under this option will be expanded to include the following.

~ Passing 2 English courses with Keystone Exams (Composition and

Literature: The Composition Exams will be administered to 9th grade English classes and the Literature Exam will be administered to 10th grade English classes).

- ↪ **Passing 2 Mathematics courses with Keystone Exams (Algebra I, Algebra II, or Geometry).**
- ↪ **Passing 1 Science course with a Keystone Exam (Biology or Chemistry).**
- ↪ **Passing 1 Social Studies course with a Keystone Exam (Civics and Government, U.S. History, or World History).**

Students must pass the course with the Keystone Exam weighted one third of the final grade in order to meet state graduation requirements. Students who do not meet these requirements will be required to take remedial programming and will be able to retake any Keystone Exam. A project assessment will be required for students who are unable to meet the Keystone Exam graduation requirement.

Graduation requirements include:

<u>Course</u>	<u>Credits</u>
English.....	4.0
English 9 (Required, 1 credit)	
English 10 (Required, 1 credit)	
English 11 (Required, 1 credit)	
English 12 (Required, 1 credit)	
Mathematics*.....	3.0
See Math Flowchart (pg. 59)	
Science.....	3.0
See Science Flowchart (pg. 69)	
Social Studies.....	3.5
World History 9 (Required, 1 credit)	
World Cultures 10 (Required, 1 credit)	
American Survey 11 (Required, 0.5 credit)	
American Government 11 (Required, 0.5 credit)	
Economics 12 (Required, 0.5 credit)	
A.P. American History can replace American Survey and American Government	
A.P. European History can replace Economics	
Arts/Humanities.....	2.0
Two units Humanities, or two units Arts	
- OR -	
One unit Arts and One unit Humanities	
Arts: Visual Arts, Practical Arts (includes Industrial Arts and Family & Consumer Sciences), Music, Band, Theater, Chorus, Leadership (4 th year only)	
Humanities: Social Studies, English, Language Philosophy	

Comp. Personal Health.....	0.5
Physical Education.....	1.0
Physical Education 9 (Required, .25 credit)	
Physical Education 10 (Required, .25 credit)	
Physical Education 11 (Required, .25 credit)	
Physical Education 12 (Required, .25 credit)	
Electives.....	4.5
Elective credit is earned for any course a student passes that is not used to meet specific graduation requirements	

TOTAL.....21.5 Credits

Approved: Board of School Directors
August 16, 1993

****NOTE: Three full math credits must be earned between grades 9 and 12, regardless of the level of mathematics courses taken at the Junior High School.***

PROJECT REQUIREMENTS

The Curriculum and Assessment Regulations of the Pennsylvania Department of Education, otherwise known as Chapter Four, require that each student complete a culminating project as part of the high school graduation requirements. The project is intended to assure that students are able to apply, analyze, synthesize, and evaluate information and communicate significant knowledge and understanding.

To address these graduation requirements, the Butler Area School District has developed a plan that requires students to complete one in-depth project in each core academic subject over their four years in high school in the following areas:

Grade Nine:	Mathematics
Grade Ten:	Social Studies
Grade Eleven:	Science
Grade Twelve:	English

Embedding the project requirement in required academic courses will ensure that the projects are properly supervised and assessed, and it will eliminate the need to track project completion by students over their four years in high school. The project will become part of the grade that a student receives in each of the courses where it is required. Project requirements will be explained to students at the beginning of the

school year and they will receive specific instruction on project design, purpose, timelines for completion, and assessment criteria at the time the project is assigned.

CLASS RANK (Grades 9-12)

Although class rank will be determined by the following quality point scale for final grades, exceptions will be made for additional quality points earned by selecting Advanced Placement subjects and Honors subjects:

A=4.0 B=3.0 C=2.0 D=1.0 E=0

Class rank calculations shall begin when a student enters ninth grade. Algebra I, Geometry, Computer BASIC Programming, or a foreign language taken in Junior High School will not affect class rank.

SUBJECT QUALITY POINT SCALE (Grades 9-12)

ADV. PLACEMENT COURSES

College Board Advanced Placement subjects will have the following quality point scale:

A=5.0 B=4.0 C=3.0 D=2.0 E=0

HONORS COURSES

Honors courses will have the following quality point scale:

A=4.5 B=3.5 C=2.5 D=1.5 E=0

ALL OTHER COURSES

Regular subjects will have the following quality point scale:

A=4.0 B=3.0 C=2.0 D=1.0 E=0

REQUIREMENTS FOR PARTICIPATION IN

GRADUATION CEREMONIES

SENIORS MUST COMPLETE ALL GRADUATION REQUIREMENTS TO PARTICIPATE IN COMMENCEMENT!

Seniors will be notified of their status relating to graduation throughout the school year.

A. Seniors who are not able to schedule enough courses for the spring semester to fulfill graduation requirements will not be permitted to participate in the Commencement program. Notifications of nonparticipation in the Commencement program will occur through a certified letter being sent to the student's residence.

B. Seniors who have earned the correct number of credits at the conclusion of the fall semester and fail a course which is necessary to meet graduation requirements in the spring semester will not be permitted to participate in the Commencement program. When progress reports are issued for the fourth quarter in the spring semester, efforts will be made to notify seniors who are in danger of failing a course that they may not be eligible to participate in the Commencement program. The student may participate in the graduation exercise should the course be completed satisfactorily by the conclusion of the spring semester.

C. Students may participate in the following year's graduation ceremony upon completion of graduation requirements.

ISSUANCE OF DIPLOMA

A. Butler Area School District will only issue diplomas to students who have fulfilled graduation requirements adopted by the Board of School Directors of the Butler Area School District.

B. Diplomas will be ordered for students completing graduation requirements following their senior year only after verification that all course requirements have been satisfied.

C. Students must complete graduation requirements by the end of the summer following Commencement to receive a diploma for that calendar year. Students who

return the following school year to complete graduation requirements will receive a diploma at the end of that school year with that graduating class.

SENIOR ACTIVITIES

A. Seniors will be permitted to participate in all senior activities -- with the exception of Commencement -- whether or not they meet graduation requirements.

B. Final determination of a student's participation in a senior activity rests with the building principal.

C. Any exceptions to this policy must be addressed to the Board of School Directors by the Butler Senior High School Principal, in writing, for action prior to Commencement.

PERMANENT TRANSCRIPT

Each student has a permanent transcript in the guidance office. By the time a student graduates, this transcript provides a record of a student's grades, attendance, extra-curricular activities, any awards or honors received, and college entrance test scores. Requests for information from colleges as well as from prospective employers are filled out according to the information on the permanent transcript.

TRANSCRIPTS

A student applying for college entrance also needs to submit a transcript for college admission and should submit a request for the transcript along with the college application to the Guidance Office secretary. Transcripts are then prepared by the office staff and given to the guidance counselor for completion. A minimum of three days must be allowed. Official transcripts are mailed from the Guidance Office only.

COLLEGES & UNIVERSITIES

All colleges have requirements for admission. These relate to the courses followed in high school and include rank in class, school recommendation, test scores, interviews, and

extra-curricular activities.

A. Specific Requirements

1. Generally, a student must submit 15 or 16 credits taken in grades 9 through 12 in the academic fields of English, social studies, math, science, and world languages.

2. Beginning with ninth grade, all subjects and grades are listed on high school transcripts and counted as part of the credits for admission. Algebra I, Geometry, French I, German I, or Spanish I taken at Butler Junior High School will also be listed on the high school transcript and counted as elective credits; however, these courses will not be used in calculating a student's grade point average and class rank.

3. To best prepare for college, a student must carry a minimum of four academic subjects a year; five are recommended. The amount of credit allowed by colleges for business, art, music, homemaking, shop, etc., is usually limited.

4. It is not wise to prepare to meet only the minimum requirements for college. Many students change their minds, and the minimum requirements for one school may not be adequate for admission to another.

B. Supplementary Requirements

1. Class Rank: The emphasis is on the quality of work in academic subjects rather than quantity of credits. (See page 6 - Class Rank)

2. Recommendations: The school counselor will provide a recommendation when requested on the application. The student must assume the responsibility for recommendations from teachers and others in the community, as required.

3. College Entrance Tests: Most colleges require standardized testing as part of their admission process. This is done either through the SAT or the ACT.

PSAT: This test is a practice for the SAT. It is given in the fall of the year to juniors and is also available to

interested sophomores. Registration for this test is through the Intermediate High School Guidance Office in the late spring of the year.

THE NATIONAL MERIT SCHOLARSHIP SEMI-FINALISTS ARE SELECTED USING A STUDENT'S JUNIOR YEAR PSAT SCORES.

SAT: This test measures critical reading, math, and writing skills.

Subject Tests: These are specific subject tests as required by the college. This testing is required by the more selective colleges.

ACT: This test measures writing skills and four academic areas: English, mathematics, reading, and science reasoning.

Students are responsible for knowing what tests are required and when they are to be taken. Registration materials are available in the Guidance Office. It is recommended that students take either the SAT or ACT the spring of their junior year. Butler Senior High School is a testing center for all of the above tests.

4. Interview: Some schools require a personal interview with an admissions officer or an alumnus.

5. Extra-Curricular Activities/Community Service: Colleges will ask for a record of extra-curricular activities both in the community and in school.

6. Attendance: Schools are interested in attendance records.

C. Application Procedure

1. Visit the college/university website. Many colleges and universities recommend prospective students to complete the undergraduate admissions application online. If unable to do this online, call or write to the Admissions Office at the schools of your choice requesting applications and financial aid forms. (Some applications may be available in Guidance Office files.)

2. Read the directions for completing the application, follow them carefully, and fill out the application accurately.

3. The completed application, along with required fees, should be given to the guidance secretary who will arrange for the required transcript. The counselor will then complete the application. Transcripts must be sent directly from the Guidance Office to the college/university to be considered official.

4. It is the student's responsibility to provide necessary postage to mail the college application.

VISITATION EXCUSES

Juniors and seniors are permitted two days of excused absence to visit a post-high school training institution. A permission slip from the parents must be approved by the student's counselor at least one day prior to the day of visitation.

FINANCIAL AID

As material concerning financial aid is received, the guidance staff issues bulletins to all seniors. Students are to read these for programs for which they may qualify. They should also be shared with their parents.

Senior high guidance counselors sponsor a College Fair Night in September and a Financial Aid Night in both November and January. November's meeting is on college admissions and a preview of what information is necessary to complete a senior student's FAFSA (Free Application for Federal Student Aid) form. January's meeting is a line-by-line overview on how to complete the FAFSA form. FAFSA is a single form for both Federal and State Aid Reporting.

Financial aid starts with FAFSA (Free Application for Federal Student Aid) form. The information you provide on this federal and state form will determine how much aid and what types of aid you will be offered at each of the schools you are considering.

Some types of financial aid (grants & scholarships) are made available on a first come, first served basis. It is important that you submit your FAFSA as early as possible after January 1. Many schools require this form for any of their school-based aid as well as State and Federal.

The CSS/Financial Aid PROFILE is required at some private colleges and universities. This form is similar to FAFSA but is not a state or federal form. Grove City College requires this form.

A student loan program is offered through Butler Area School District. Forms are available at the Harriger Educational Services Center, 110 Campus Lane, Butler, PA.

GED TESTING

General Educational Development Tests are available to anyone who does not have a high school diploma. To be eligible, the applicant must be 18 years of age. Those interested in GED testing should contact the Intermediate High School Guidance Office, at 724-214-3414.

EXPLANATION OF ABILITY LEVELS

All Levels: Students from all ability levels may schedule this course.

Basic Level:

Course content is designed for the student as identified in the below in Criteria: Admission to Basic Level Courses.

Academic Level: Course content is designed for the middle ability achieving student. (includes courses with “Academic” course titles)

Average and Above: Course content is more challenging than academic level. (includes certain math and foreign language courses and courses with “College Tech Prep” course titles grades 9-12)

Honors Level: Course content is designed for the high achieving student.

Advanced Placement: College level courses offered to students in grades 11 and 12.

Gifted Level: Course content is designed for the identified gifted student. Individual and group modifications will be provided.

CRITERIA: ADMISSION TO BASIC LEVEL COURSES

Students will be admitted to basic level courses upon the recommendation of the subject area teacher and verification by the guidance counselor that the following criteria have been met:

Intermediate High School (Grades 9 & 10):
For English, science, and social studies basic level placement, the student must meet the following criterion:

Scoring at or below the 25th percentile on the local norm on the Stanford Achievement Test (TASK) in the area of Reading Comprehension.

Senior High School (Grades 11 & 12):
For English and Social Studies, the student must have scored below the 25th percentile on the local norm on the Stanford Achievement Test (TASK) in the area of Reading Comprehension and on one of the following tests:

- Verbal Reasoning/Spelling/Language Usage (DAT)
- English/Reading Vocabulary/Total Reading (TASK)

For mathematics basic level placement, the student must meet the following criterion:

Scoring at or below the 25th percentile on the local norm on the Stanford Achievement Test (TASK) in the area of Total Math.

COLLEGE TECH PREP PROGRAMS

The Butler Area School District offers College Tech Prep Programs in Allied Health Technologies, Child Development, Communications & Media Studies, Business Management and Finance, Engineering-Related Technologies, and Information Technologies. College Tech Prep is a college preparatory program leading to a two-year or four-year college degree with an emphasis on technical skills and practical applications of knowledge. An explanation of the programs and suggested course sequences can be found on pp. 18-26

Look for the College Tech Prep logo in the following course descriptions to identify applied academic courses and technical courses in the College Tech Prep Program.

Contact Mrs. Shannon McGraw, College Tech Prep Coordinator, at 724-214-3208 with any questions regarding the Program and/or courses.

ADVANCED PLACEMENT PROGRAMS

Advanced Placement courses are college-level courses for secondary school students. Students may elect to pay to take the "Advanced Placement Test" in any subject area in May. Any student who takes an AP exam in May and receives a score of three or higher will be reimbursed for the full cost of the exam. As a result of this test, students may qualify for college credits at participating colleges and universities.

Through articulation agreements with Butler County Community College, students can earn college credit.

For more information on these programs, contact your guidance counselor or Senior High Principal, Mr. Jeffery Schnur.

GIFTED EDUCATION PROGRAM

Programs for the gifted child in the Butler Area School District may have three components, beginning with the Individualized Education Program (GIEP) and including options and modifications. The GIEP is a written form that spells out the specific

programs and services the child will receive. The GIEP also contains goals and objectives for the child, the date services are to start, and other information about the program. Options are all of those co-curricular activities and offerings of an enrichment nature from which any gifted student may select. Preparation for and participation in the selected options usually require a combination of some scheduled in-school time and/or out-of-class time and some out-of-school time on the part of the student. Modifications are those alterations of an acceleration and/or enrichment nature made in scheduling classes or within the classroom that are designed because there is strong evidence that the student has demonstrated advanced knowledge and/or skills in certain areas. Usually, this means acceleration in skill areas such as math and acceleration, enrichment, or both in the content areas such as social studies. Modifications within the classroom are made by the teacher as indicated in the GIEP.

For additional information on Gifted Education, parents and students should refer to Butler Area School District's Gifted Education Program Handbook.

MICROSOFT CERTIFIED APPLICATION SPECIALIST (MCAS) CERTIFICATION PROGRAM

The Microsoft Certified Application Specialist (MCAS) Certification Program validates skills in using the Microsoft Office system. Five certifications are available: Access, Excel, Outlook, PowerPoint and Word.

The MCAS exams cost approximately \$79 each time you take an exam. The fee may vary among testing centers. The Microsoft Certified Application Specialist (MCAS) will meet the demand for the most up-to-date skills on the latest Microsoft technologies. Students who successfully complete the program by passing a certification exam show that they can meet globally recognized performance standards. Candidates must pass one certification exam in order to earn the MCAS credential.

ENGLISH AS A SECOND

LANGUAGE (ELL) PROGRAM

English Language Learners (ELL's) will receive instruction in the same curriculum areas as the district's English speaking students. Equity in providing for these students' successful achievement of the standards and graduation requirements will be addressed by the regular classroom teachers and/or the ELL teacher. The amount and type of ELL instruction provided will depend upon the student's level of language development and proficiency as determined by an appropriate English Language Proficiency assessment. Instruction will take place as a "pull out" activity or in the mainstream classroom with supportive services.

THE STUDY LOAD

In order to meet graduation requirements, it will be necessary for each student to pass at least six credits for one year, five and one-half credits for one year, and five credits for two years. Students must schedule at least six class periods per semester. More than one study hall per day is not permitted unless approved by the principal.

The quality of work to be maintained, as well as the number of credits to be earned, should be the guiding principle in scheduling. Study periods in the school day should be used efficiently, and adequate time during out-of-school hours should be reserved for homework and preparation for the next day's lessons.

Many students engage in part-time employment while in school. These part-time jobs give students the ability to earn money for their present needs and also give them the opportunity to build a fund for further education. However, no student should be encouraged to continue in part-time employment if long hours or other poor conditions are negatively affecting school performance.

Daily attendance will affect a student's performance in school. Parents must be aware that daily attendance is crucial to successful completion of scheduled subjects.

SCHEDULE CHANGES

A realistic and responsible approach to scheduling must be assumed by each student. Every effort is made to provide students with their course selections, appropriate materials and uncrowded classes. Therefore, students are urged to take a serious approach to the entire course selection process since schedule change requests will be kept to an absolute minimum. This must be done to insure that there is not an imbalance of classes created which could result in a shortage of materials and an excessive number of study halls.

*** NEW FOR 2011-2012 ***

Final grades are issued for full year courses at the end of the second semester. 18-week courses will receive final grades at the end of each semester. Students scheduled for full-year courses will remain in those courses for the entire year. ANY STUDENT REMOVED EARLY FROM A FULL YEAR COURSE WILL FORFEIT ANY CREDIT FOR THAT COURSE. Students will only be considered for removal from a full year course if they have failed or received a "D" for the semester; can be scheduled in a different level of the course and only after consultation with the guidance counselor and approval by the building principal.

When students are permitted to change course levels, they will receive the course weight for the level in which they finished the school year, when grade point averages and class rank are calculated.

Students who must have changes in schedules, due to computer error or administrative error, will have these changes made promptly after these errors are made known to the office by the students.

Students are required to process a schedule change request prior to July 8, 2011. Schedule changes will not be made to accommodate student work assignments or extra-curricular activities. Students requesting a change in schedule for any other reason must follow a prescribed procedure:

1.....Pick up a schedule change request form from the Guidance Office.

2.....Complete the form and sign (both student and parent must sign).

Schedule change request forms must be completed and returned by the established deadlines.

3.....Submit the form to the Guidance Office for review by counselors and/or administration according to the drop/add policy.

Students will be notified of the decision following a review of their request; until then, they must follow the original schedule.

DROP/ADD HEARINGS

During the first ten school days of the first semester and during the first ten school days of the second semester of each school year, students enrolled in the secondary schools may be able to drop and/or add courses with approval from the counselors and/or building administrators. Beyond the first ten days, students may request and be granted permission by the building principal to convene a hearing to ascertain approval or denial of a request to drop a course. The hearing must consist of the following: the principal or his/her designee, the student's assigned counselor, teacher of the course under consideration, student, and parent(s)/guardian(s). Requests for hearings to drop a course must be submitted before the 30th school day of a semester. If the request is approved, the student will be withdrawn and will receive no credit for the course.

AUDITING CLASSES GUIDELINES

Students may be permitted to audit a semester of a course according to the following conditions:

1.....The course is a full year course required to meet academic graduation requirements. Only English, math, science, social studies, and foreign language classes will be considered.

2.....The student is failing or in danger of failing at the conclusion of the first semester, but has demonstrated a concerted effort to pass the course.

3.....Auditing requests must be made at the conclusion of the first semester and not later than the first ten school days of the second semester. Auditing approvals are not reversible.

4.....While auditing, the student is expected to continue to make a concerted effort to complete assignments and take exams.

5.....The student must schedule the entire course the following year.

6.....The parent, counselor, teacher, and principal must approve the auditing request.

RATIONALE: Students who make a concerted effort but who are doing poorly in a required course will have the opportunity to remain in the class for the second semester and attempt to learn without a grade or credit being issued. The student will be better prepared to repeat the course and will not have two failing grades on his/her transcript.

GUIDELINES FOR SELECTING COURSES

1.....Review the course offerings and descriptions in the academic areas and the recommended course sequences included in this Curriculum Guide.

2.....Follow the instructions given by guidance counselors and/or administrators during their presentations in classes.

3.....Consult your parents and teachers for course recommendations.

4.....Complete the **Subject Approval Form** using the directions that follow.

5.....Submit your completed **Subject Approval Form** to your homeroom teacher by **Thursday, March 10, 2011**.

6.....Students failing to submit Subject Approval Forms by March 10, 2011 will have their schedules for 2011-2012 written by the

guidance counselors. These students will lose all privileges for changing courses.

7.....If you have any questions, consult your Guidance Counselor. Parents may call the Butler Senior High School Guidance Department at (724) 214-3211 or the Intermediate High School Guidance Department at (724) 214-3413. Counselors are assigned according to the first letter of the student's last name.

Senior High School

<u>Last Name</u>	<u>Counselor</u>
A - Gn	Ms. Deb Hall
Go - N	Mrs. Angela Orbin
O - Z	Mr. Mark Maloy

Intermediate High School

<u>Last Name</u>	<u>Counselor</u>
A - Gn	Mrs. Deborah Pichler
Go - N	Mr. George Link
O - Z	Mrs. Alecia Mowrey

EARLY BIRD CLASSES

For the 2011-2012 school year, early bird classes will be offered. These classes are designed for those students who wish to schedule eight periods of classes. Only those courses that receive credit will count towards the eight periods (exceptions: Stage Crew and Magnet). Transportation is the student's responsibility. Students desiring to take an early bird class must circle the words **Early Bird Class** on the student Subject Approval Form and enter **EB00-Early Bird** when computer scheduling. ***It is important to note that students cannot choose the specific early bird class. Students may be assigned to any of the classes appearing on their schedule, which meet during the selected early bird time period.*** ***Assignments will be based on course requests and class balance.*** Tentative start time for early bird classes is 7:30 a.m. at the Senior High School and 7:19 a.m. at the Intermediate High School.

The following courses will be offered if there is sufficient enrollment.

FRESHMEN SOPHOMORES

Physical Education	Physical Education
	World Cultures-Honors
	Chemistry-Honors Gifted

Chemistry-Honors

JUNIORS

Physical Education
Physics-Honors
Chemistry
Chemistry-Honors
Precalculus - Honors
A.P. Calculus AB
CTP Algebra II

SENIORS

Physical Education
Physics-Honors
Chemistry
Chemistry-Honors
Precalculus - Honors
A.P. Calculus AB
CTP Algebra II
Economics

Additional courses may be offered if necessary.

SCHEDULING TIMELINES

Monday, February 28, 2011 - Scheduling information is distributed to all students Grades 8-11. In addition to this Curriculum Guide, each student will receive a copy of his/her transcript and a Subject Approval Form.

Monday, February 28 and Tuesday, March 1, 2011 - Senior High School Guidance Counselors will meet with current tenth grade students at Butler Intermediate High School during Social Studies classes to discuss the scheduling process. Intermediate High School Guidance Counselors will meet with current ninth grade students during Social Studies classes.

Monday, February 28, 2011 - All teachers in all classes at the Intermediate and Senior High Schools will spend each period discussing courses and requirements within that particular department. Teachers having presentations in their classes this day will review departmental offerings the following day.

Tuesday, March 1, 2011 - Summer School registration begins.

Wednesday, March 2 and Thursday, March 3, 2011 - Intermediate High School Guidance Counselors meet with all current eighth grade students at the Junior High School during science classes. Senior High School Guidance Counselors meet with all current eleventh grade students in social studies classes.

Thursday, March 3, 2011 - Scheduling Open House at Butler Intermediate High School from 7:00 - 9:00 p.m. for all parents of students attending either the Intermediate or Senior High Schools during the 2011-2012 school year.

Thursday, March 10, 2011 - Deadline for returning Subject Approval Forms to homeroom. Students will enter their course requests online according to the homeroom schedule, based on the Subject Approval Form, to register for classes.

DIRECTIONS FOR COMPLETING THE SUBJECT APPROVAL FORM

1. All information should be printed in ink.
2. Neatly print your name, present grade, homeroom, student number, home phone number, and parent's work phone number in the designated area. Please list the career or occupation that you plan to pursue after graduation; if undecided, please write "Undecided."
3. Use the Academic Areas Courses section to find the course numbers and course title/levels you would like to schedule.
4. Be sure to schedule the correct number of credits in each area to meet graduation requirements. Every student must schedule a minimum of six periods of instruction at the Intermediate High School and six periods of instruction at the Senior High School each semester. Refer to page four of the curriculum guide for details on credits needed.
5. Enter course titles and numbers (CN) on your Subject Approval Form. **PLEASE BE ACCURATE!**

a. **For full-year course numbers, write only the course number (CN) and the course title for fall and spring on your Subject Approval Form. For example, a student registered for ninth grade academic English should record EA10.**

**NOTE: Students scheduled for year-long courses will remain in*

those classes for the entire year.
Consideration for removal will only be given if a student has received a D or E can be scheduled in a different level of that course and the principal of the building approves the change.
A student removed from a full year course at the end of the first semester will receive no credit for that course.

b. For semester courses, use the course number (CN) given for either semester unless there is a separate course number for Fall and Spring. In that case, use the specific course number (CN) for the semester you are requesting the course. Be sure to list the course title as listed in the course offerings.

c. Students are reminded to read carefully all the special notes pertinent to each course in the offerings.

6. You must get signatures of your teachers for the courses you are selecting. Be sure that you get signatures from teachers in the appropriate departments (example: English teacher signs for your English course, Math teacher signs for your Math course, and so on).

Your Counselor can sign for course selections in subject areas you are not currently taking. Intermediate High School Guidance Counselors can sign for Vocational-Technical courses. Current juniors must obtain signature from the counselor at Butler County Vocational-Technical School for vocational-technical courses. Students must complete an application to Butler County Area Vocational-Technical School.

The copy of your transcript MUST be shown to teachers/counselors as you ask for permission to take courses!

7. If you have a full schedule of seven periods and wish to schedule an **early bird** class, or an eight-period schedule, follow the instructions as given in the Early Bird section. Also, be sure to enter EB00-Early Bird when computer scheduling. **Early Bird classes**

are only available to students who have eight periods of classes. These classes will only be scheduled if sufficient interest exists. See the information page on Early Bird classes.

8. Use the box in the lower right corner of the Subject Approval Form to select alternative elective courses to be used in the event of a scheduling conflict. If your requested electives can't be scheduled, the Guidance Department will attempt to drop and add the courses that you write in this area. **You must complete this section prior to returning your Subject Approval Form.**

9. After all of your course selections and course numbers (CN's) are entered on your Subject Approval Form and you have

teacher's/counselor's signatures, you must:

- a. Sign the form.
- b. Have your parents review and sign the form.
- c. Submit the form to your homeroom teacher no later than **Thursday, March 10, 2011.**
- d. Students will enter courses in the computer during scheduled homeroom sessions.

RECOMMENDED COURSE SEQUENCES

GRADES 9-12

INTRODUCTION:

Butler Area School District's graduation requirements and recommended course sequences are provided to assist you in planning your schedule for next year and each subsequent year of your high school career. Listed are samples of programs designed not only to assist you in keeping track of your credit count but also to ensure that you have earned the necessary credits if you plan to continue your education beyond high school. Some of the choices may be changed to meet an individual's special interests and to provide for varied ability levels.

Students who are interested in attending a two-year or four-year college degree program are strongly advised to choose either the College Preparatory sequences of courses or the College Tech Prep sequence of courses. **Taking the academic curriculum is not a guarantee of preparation for a collegiate experience.**

**COLLEGE PREPARATORY A
(Concentration in Mathematics and Science)**

GRADE 9		GRADE 10	
English 9 (Honors)		English 10 (Honors)	
World History (Honors)		World Cultures (Honors)	
Honors Geometry OR Honors Algebra II		Honors Algebra II OR Honors Pre-calculus	
Honors Biology		Honors Chemistry	
1 st OR 2 nd year of World Language		1 st , 2 nd , OR 3 rd year of World Language	
Physical Education (1 semester)		Physical Education (1 semester)	
		Health (Last names F-R)	
Electives		Electives	
GRADE 11		GRADE 12	
English 11 (Honors OR AP)		English 12 (Honors OR AP)	
Honors Am. Survey (1 semester) & Honors Am. Government (1 semester) OR AP American History (full year)		Honors Economics (1 semester req.) OR AP European History (full year)	
AP Calculus AB OR Honors Pre-Calculus		AP Calculus AB OR AP Calculus BC	
Honors Physics		AP Statistics, AP Biology, OR AP Chemistry	
Computer Course		Additional Advanced Sciences	
World Language (if desired)		World Language (if desired)	
Physical Education (1 semester)		Physical Education (1 semester)	
Health (Last names A-E, S-Z)			
Electives		Electives	

A course sequence in Mathematics starting in seventh grade may be continued by those students with well above-average abilities in this area so that AP Calculus or AP Statistics maybe taken in twelfth grade. Please refer to the Mathematics Sequence Chart on page 59. AP Calculus BC may only be taken after successful completion of AP Calculus AB.

Electives to fill out schedules may be chosen from Art, Business, Computer and Information Technology, Family and Consumer Science, Industrial Arts/Tech Ed., JROTC, or any of the academic subject areas.

**COLLEGE PREPARATORY B
(Concentration in Arts and Humanities)**

GRADE 9		GRADE 10	
English 9 (Honors)		English 10 (Honors)	
World History (Honors)		World Cultures (Honors)	
Mathematics (according to ability)		Mathematics (according to ability)	
Comprehensive Science OR Honors Biology		Comprehensive Science, Biology, OR Honors Chemistry	
1 st OR 2 nd year of World Language		1 st , 2 nd , OR 3 rd year of World Language	
Physical Education (1 semester)		Physical Education (1 semester)	
		Health (Last names F-R)	
Electives		Electives	
GRADE 11		GRADE 12	
English 11 (Honors OR AP)		English 12 (Honors OR AP)	
Honors American Survey (1 semester) & Honors American Government (1 semester) OR AP American History (full year)		Honors Economics (1 semester) OR AP European History (full year)	
Mathematics (according to ability)		Mathematics (recommended)	
Honors Chemistry OR Honors Physics		Additional Science (recommended)	
World Language (if desired)		World Language (if desired)	
Physical Education (1 semester)		Physical Education (1 semester)	
Health (Last names A-E, S-Z)		Computer Course (1 semester)	
Electives		Electives	

Please refer to the Mathematics Course Sequence Chart on page 59 to determine the appropriate course for each year.

Arts and Humanities includes such majors as English, Political Science, Creative or Performing Arts, World Language, etc.

Electives to fill out schedules may be chosen from Art, Business, Computer and Information Technology, Family and Consumer Science, Industrial Arts/Tech Ed., JROTC, or any of the academic subject areas.

COLLEGE TECH PREP PROGRAMS

**Allied Health Technologies
Business Management and Finance
Communication and Media Studies**

**Engineering-Related Technologies
Information Technologies
Child Development Program**

College Tech Prep programs have been implemented nationwide to give students a solid background of academics and technology and prepare them for the career challenges of the future. College Tech Prep, short for College Technical Preparatory, does not mean preparation for technical school, but preparation for careers in today's age of technology. It is a special course of study that provides the technical preparation to allow a student to continue his or her education in an associate degree or baccalaureate degree program. In addition to their technical courses, the students follow a rigorous program of applied academics that is designed to teach course content in context with issues and topics surrounding work, home, society, and the environment. The applied academic courses engage students in cooperative teams, allowing them to participate in laboratory-centered, hands-on activities that make learning practical and relevant. Academics will be closely monitored, and students are encouraged to maintain effective communication with their teachers and attend tutoring sessions when offered.

The College Tech Prep Program has been developed in cooperation with local colleges and universities such as **Butler County Community College, Erie Business Center, Indiana University of Pennsylvania, Indiana University of Pennsylvania Northpointe Campus, Penn State University, Point Park University, Pittsburgh Technical Institute, and The Art Institute of Pittsburgh**. Through articulation agreements with these institutions, completion of the Butler Area School District's College Tech Prep Program guarantees a student's acceptance into their programs and/or credit for course work completed in high school. Please refer to the College Tech Prep Handbook for specific information about articulation agreements with colleges and universities. **In addition to the programs outlined on the following pages, some colleges/universities do require or highly recommend two years of a foreign language.** College Tech Prep students may, however, attend any college/university of their choice in the same manner as any other Butler Area School District graduate who meets the criteria of that institution. For more information about these programs, contact Mrs. Shannon McGraw, College Tech Prep Coordinator, at 724-214-3208, or Dr. Michael Strutt, Assistant Superintendent, at 724-214-3106.

Students must have parent permission, along with teacher and counselor recommendation, to enroll in the College Tech Prep Program. They must score above the 25th percentile in Reading and Math on standardized tests and have at least a "C" average in core academic subjects. Academic strengths should be considered when selecting interest areas. **Students with an interest in the Allied Health or Engineering-Related Technologies professions should be aware that strengths in science and mathematics are especially beneficial for these programs.** Students may enroll in the College Tech Prep programs when they schedule their classes for grades 9, 10, or 11. Once enrolled in the program, students are expected to maintain a "C" average in the Applied Academics and Technical courses. Those students who do not maintain a "C" average will be placed on academic probation until their grades improve, or they may be removed from the program. College Tech Prep students are also expected to conduct themselves in a manner conducive to a good educational environment. Students who repeatedly violate school rules may jeopardize their participation in the program.

The Program Scope and Sequences for College Tech Prep Programs can be found on the following pages.

— ALLIED HEALTH TECHNOLOGIES PROGRAM SCOPE AND SEQUENCE —

Students with an interest in the Allied Health or Engineering-related professions should be aware that strengths in science and mathematics are especially beneficial for these programs.

CTP = College Tech Prep

Subject	Grade 9	Grade 10	Grade 11	Grade 12
MATH	CTP Algebra I or Any higher math	CTP Geometry or Any higher math	CTP Algebra II or Any higher math	Precalculus, Part I or Honors Precalculus
ENGLISH	CTP Communications I or Honors English 9	CTP Communications II or Honors English 10	CTP Communications III or Honors English 11	CTP Communications IV or Honors English 12
SCIENCE	CTP Science or Any higher Science	CTP Biology or Any higher Science	CTP Chemistry or Any higher Science	CTP Physics or Any higher Science
SOCIAL STUDIES	World History	World Cultures	American Survey (18 wks.) American Government (18 wks.)	Economics (18 wks.)
OTHER	Physical Education (18 wks.)	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.)
TECHNICAL PROGRAM <i>(Required)</i>	Forensic Science (18 wks) Computer Applications I (18 wks) Computer Applications II (18 wks)		Anatomy and Physiology (36 wks.) Health Care and Career Applications (18 wks) Molecular Biology (18 wks)	
Recommended Electives <i>(Not Required)</i>	CPR/First Aid Family & Prenatal Development Infant & Toddler Development		CPR/First Aid Early Childhood Development Adolescent Development Child Development Field Experience Psychology Sociology Microsoft Access	
* = Students take Personal Health in either tenth or eleventh grade.				

**— BUSINESS MANAGEMENT & FINANCE PROGRAM —
SCOPE AND SEQUENCE**

NOTE: CTP = College Tech Prep

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
MATH	CTP Algebra I or Any higher math	CTP Geometry or Any higher math	CTP Algebra II or Any higher math	PreCalculus, Part I or Any higher math
ENGLISH	CTP Communications I or Honors English 9	CTP Communications II or Honors English 10	CTP Communications III or Honors English 11	CTP Communications IV or Honors English 12
SCIENCE	CTP Science or Any higher science	CTP Biology or Any higher science	CTP Chemistry or Any higher science	CTP Physics or Any higher science
SOCIAL STUDIES	World History	World Cultures	Amer. Survey (18 wks.) Amer. Govrn. (18 wks.)	Economics (18 wks.)
OTHER	Physical Education (18 wks.)	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.)
Technical Program – Business Management and Finance				
Required Technical Program	Intro. to Business Microsoft Word (18 wks.)	Computer Applications I (18 wks.) Computer Applications II (18 wks.) or Microsoft Power Point (18 wks.)	Accounting I Microsoft Excel (18 wks.)	<u>Choose One Option:</u> Accounting II or Marketing and Management or Microsoft Access and/or Microsoft Power Point
Recommended Electives	Visual Basic I Visual Basic II Web Publishing		Accounting II Business Multimedia Communications Business Law Marketing and Management	
* = Students take Personal Health in either tenth or eleventh grade.				

**— COMMUNICATION AND MEDIA STUDIES PROGRAM —
SCOPE AND SEQUENCE**

CTP = College Tech Prep

Subject	Grade 9	Grade 10	Grade 11	Grade 12
MATH	CTP Algebra I or Any higher math	CTP Geometry or Any higher math	CTP Algebra II or Any higher math	Precalculus, Part I or Any higher math
ENGLISH	CTP Communications I or Honors English 9	CTP Communications II or Honors English 10	CTP Communications III or Honors English 11	CTP Communications IV or Honors English 12
SCIENCE	CTP Science or Any higher science	CTP Biology or Any higher science	CTP Chemistry or Any higher science	CTP Physics or Any higher science
SOCIAL STUDIES	World History	World Cultures	American Survey (18 wks.) American Government (18 wks.)	Economics (18 wks.) Elective (18 wks.)
OTHER	Physical Education (18 wks.)	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.)
Strand 1 Technical Program – Journalism & Public Relations				
TECHNICAL PROGRAM <i>(Required)</i>	Introduction to Media Communications Journalism I Journalism II (18 wks.)		Speech/Interpretation/Debate, Public Relations & Organizational Communication, (18 wks.) Journalism III (36 wks.)	
Recommended Electives <i>(Not Required)</i>	Intro to Video Production Web Publishing Computer Applications I/II Photography and Graphic Arts Microsoft Word PowerPoint/Outlook (18 wks.)		TV/Video Production, Part I TV/Video Production, Part II Advanced TV Radio Production Computer Applications I Microsoft Word PowerPoint/Outlook (18 wks.)	
Strand 2 Technical Program – Broadcast Communications				
TECHNICAL PROGRAM <i>(Required)</i>	Intro to Media Communications (18 wks)	Intro to Video Production (18 wks)	Television Production I (18 wks) Television Production II (18 wks) Radio Production (18 wks) Advanced Television Production (18 wks)	
Recommended Electives <i>(Not Required)</i>	Photography and Graphic Arts, Computer Applications I/II, Web Publishing		Business Multimedia Communications, Computer Applications I, Drama Production I/II, Speech/Interpretation/Debate, Public Relations & Organizational Communication, Electronics, Digital Electronics	
* = Students take Personal Health in either tenth or eleventh grade.				

**— ENGINEERING-RELATED TECHNOLOGIES PROGRAM —
SCOPE AND SEQUENCE**

Students with an interest in the Allied Health or Engineering-related professions should be aware

that strengths in science and mathematics are especially beneficial for these programs.

CTP = College Tech Prep

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
MATH	CTP Algebra I or Any higher math	CTP Geometry or Any higher math	CTP Algebra II or Any higher math	Precalculus, Part I or Any higher math
ENGLISH	CTP Communications I or Honors English 9	CTP Communications II or Honors English 10	CTP Communications III or Honors English 11	CTP Communications IV or Honors English 12
SCIENCE	CTP Science or Any higher science	CTP Biology or Any higher science	CTP Chemistry or Any higher science	CTP Physics or Any higher science
SOCIAL STUDIES	World History	World Cultures	American Survey (18 wks.) Amer. Govern. (18 wks.)	Economics (18 wks.)
OTHER	Physical Education (18 wks.)	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.)
Technical Program (Required)	Technical Drafting I	Technical Drafting II	Computer-Aided Drafting (CAD-1) or Computer-Aided Engineering (CAD-2)	Computer-Aided Architecture & Design or Computer-Aided Engineering (CAD-2)
** IUP Northpointe Electro Optics Options Recommended Electives <i>Select minimum of two courses</i>	CTP Algebra II or any higher math, CTP Physics or any higher science, Electronics, and Digital Electronics Computer Applications I, Computer Applications II, Metalworking I, Metalworking II, Technology Design & Application, Transportation Technology Automation, Computer Applications I, Digital Electronics, Electronics			
* = Students take Personal Health in either tenth or eleventh grade ** = Refer to the CTP handbook for the complete IUP Northpointe Electro-Optics Articulation Agreement				

— INFORMATION TECHNOLOGIES PROGRAM SCOPE AND SEQUENCE —

NOTE: CTP = College Tech Prep

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
MATH	CTP Algebra I or Any higher math	CTP Geometry or Any higher math	CTP Algebra II or Any higher math	Precalculus, Part I or Any higher math
ENGLISH	CTP Communications I or Honors English 9	CTP Communications II or Honors English 10	CTP Communications III or Honors English 11	CTP Communications IV or Honors English 12
SCIENCE	CTP Science or Any higher science	CTP Biology or Any higher science	CTP Chemistry or Any higher science	CTP Physics or Any higher science
SOCIAL STUDIES	World History	World Cultures	Amer. Survey (18 wks.) Amer. Govrn. (18 wks.)	Economics (18 wks.)
OTHER	Physical Education (18 wks.)	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.)
Strand 1 Technical Program – Information Technology Programming Strand				
Required Technical Program	Computer Applications I Visual Basic I Visual Basic II		Introduction to C++ Programming Intermediate C++ Programming Introduction to JAVA Programming Intermediate JAVA Programming	
Recommended Electives	Computer Applications II Microsoft Power Point/Outlook Microsoft Word Web Publishing		Business Multimedia Communications Microsoft Word Microsoft Excel Microsoft Access Microsoft Power Point/Outlook	
Strand 2 Technical Program – Information Technology Systems Strand				
Required Technical Program	Computer Applications I Computer Applications II Web Publishing		Business Multimedia Communications Microsoft Access	
Recommended Electives	Microsoft Power Point/Outlook Microsoft Word Visual Basic I Visual Basic II		Introduction to JAVA Programming Intermediate JAVA Programming Introduction to C++ Programming Intermediate C++ Programming Microsoft Word Microsoft Excel Microsoft Power Point/Outlook	
* = Students take Personal Health in either tenth or eleventh grade.				

— CHILD DEVELOPMENT PROGRAM SCOPE AND SEQUENCE —

NOTE: CTP = College Tech Prep

SUBJECT	GRADE 9	GRADE 10	GRADE 11	GRADE 12
MATH	CTP Algebra I or Any higher math	CTP Geometry or Any higher math	CTP Algebra II or Any higher math	Precalculus, Part I or Any higher math
ENGLISH	CTP Communications I or Honors English 9	CTP Communications II or Honors English 10	CTP Communications III or Honors English 11	CTP Communications IV or Honors English 12
SCIENCE	CTP Science or Any higher science	CTP Biology or Any higher science	CTP Chemistry or Any higher science	CTP Physics or Any higher science
SOCIAL STUDIES	World History	World Cultures	American Survey (18 wks.) Amer. Govern. (18 wks.)	Economics (18 wks.)
OTHER	Physical Education (18 wks.)	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.) Personal Health *	Physical Education (18 wks.)
Child Development Program (Required)	Family & Prenatal Development (18 wks.)	Infant & Toddler Development (18 wks.)	Early Childhood Development (18 wks.) and/or Adolescent Development (18 wks.) and Field Experience Development (18 wks.)	
Recommended Electives	CPR/First Aid Music Art Lifeguarding (Grade 10 only) Computer Applications I/II		Computer Applications I CPR/First Aid Lifeguarding Art Music Psychology Sociology	
* = Students take Personal Health in either tenth or eleventh grade.				

VOCATIONAL-TECHNICAL PROGRAMS
(In Cooperation with Butler Co. Area Vocational-Technical School)

This program is intended for those students who are planning to attend the Butler County Area Vocational-Technical School during the eleventh and twelfth grades.

GRADE 9	GRADE 10
CTP Communications or Honors English 9	CTP Communications or Honors English 10
World History	World Cultures
CTP Algebra or Any Higher Math	CTP Geometry or Any Higher Math
CTP Science of Honors Biology	CTP Biology or Honors Chemistry
Physical Education (1 semester)	Physical Education (1 semester)
	Comprehensive Personal Health (Last names F-R)
Electives	Electives

Please refer to the Mathematics Course Sequence Chart on page 59 to determine the appropriate course for each year.

Electives to fill out schedules may be chosen from Art, Business, Computer and Information Technology, Family and Consumer Science, Industrial Arts/Tech Ed., JROTC, or any of the academic subject areas.

Grade 11 and Grade 12

During these two years, students will spend two periods per day at BCAVTS and the remainder of the day at Butler Senior High School completing other graduation requirements in the General Studies Program. Diplomas are issued by the home school. Potential courses of study at BCAVTS include:

- | | |
|--|---------------------|
| Air Conditioning/Heating/Electrical | Cosmetology |
| AB/Collision Repair | Culinary Arts |
| Automotive Technology | Graphic Arts |
| Building Construction | Health Assistant |
| Carpentry | Heavy Equipment |
| Commercial Art | Machine Technology |
| Computer-Aided Drafting (CAD) | Protective Services |
| Computer Networking & Telecommunications | Welding |

A complete listing of courses available at the BCAVTS and descriptions can be found on page 84.

GENERAL STUDIES

This program is intended for those students who are not planning to attend college or a vocational program.

GRADE 9		GRADE 10	
English 9		English 10	
World History		World Cultures	
Mathematics (according to ability)		Mathematics (according to ability)	
Comprehensive Science		Biology	
Physical Education (1 semester)		Physical Education (1 semester)	
		Comprehensive Personal Health (Last names F-R)	
Electives		Electives	
GRADE 11		GRADE 12	
English 11		English 12	
American Survey (1 semester required) American Government (1 semester required)		Economics (1 semester required)	
Mathematics (according to ability)		Mathematics (if desired or needed for graduation)	
Science (according to ability)		Science (if desired or needed for graduation)	
Physical Education (1 semester required)		Physical Education (1 semester required)	
Health (Last names A-E, S-Z)			
Electives		Electives	

Please refer to the Mathematics Course Sequence Chart on page 59 to determine the appropriate course for each year.

Electives to fill out schedules may be chosen from Art, Business, Computer and Information Technology, Family and Consumer Science, Industrial Arts/Tech Ed., JROTC, or any of the academic subject areas.

QUESTIONS/NOTES

ART

DRAWING I, II, III, IV, V

		<i>Fall</i>	<i>Spring</i>
AD10	Level I	AD11	AD12
AD20	Level II	AD21	AD22
AD30	Level III	AD31	AD32
	Level IV	AD41	AD42
	Level V	AD51	AD52

Grades 9 or 10 or 11 or 12 18 wks. each
0.5 credit All Levels

Prerequisite (Drawing II, III, IV, and V)
Must pass prior level

The drawing student will study perspective, contour line, and a variety of shading techniques. Figure drawing, landscape, and still life will be covered as well. Student will work with a variety of media, including conte', pastel, pencil, marker, and colored pencils. Emphasis will be on developing creative thinking and visual awareness. Drawing IV and V will be designed for the advanced student to further refine techniques and rendering skills along with the development of individual artistic style, creative thinking, and critique.

DRAWING/PAINTING

CN: ADP1

Grades 9 or 10 18 wks. 0.5 credit All Levels

In this course, the student will work on a more independent basis. He/she will be encouraged to experiment freely with media techniques in both areas and develop a style through media that he/she is most comfortable working with. The first few weeks will be devoted to drawing and developing flexibility. The use of slides, lectures and discussions will expose the student to known artists in the field.

GENERAL ART

CN: AG10

Grades 9 or 10 18 wks. 0.5 credit All Levels

This course will introduce the student to the basic principles of art. It will touch on many different experiences in drawing, painting, fabrics, art appreciation, seasonal art, practical art, crafts, and basics of color and design. The student will complete a number of projects and will be encouraged to

experiment with media and techniques. The emphasis will be on teaching the student to develop his/her visual and creative powers and develop an enjoyment and appreciation of art.

INTRODUCTION TO SCULPTURE

CN: AS10

Grades 9 or 10 18 wks. 0.5 credit All Levels
In this course, students will be introduced to various three-dimensional works of art, and the art of making it. Students will experiment with a variety of different materials, for example: plaster, clay, paper, metal, glass, recyclables. There will be an extensive study into the process of various sculptural methods used throughout history and in present day. Overall, Introduction to Sculptural will explore the many ways to produce, discuss, and critique three-dimensional works of art.

SCULPTURE II

CN: AS20

Grades 9 or 10 18 wks. 0.5 credit All Levels
Prerequisite: Introduction to Sculpture

This course will allow students to work more independently than Introduction to Sculpture. It will focus on intensive studies into sculptural mediums, such as, clay, plaster, glass, metal, etc. Students will expand upon previous knowledge and will problem-solve to expand that knowledge base.

PAINTING I, II, III, IV

CN: IHS

SHS

		<i>Fall</i>	<i>Spring</i>
AP10	Level I	AP11	AP12
AP20	Level II	AP21	AP22
AP30	Level III	AP31	AP32
	Level IV	AP41	AP42

Grades 9 or 10 or 11 or 12 18 wks. each 0.5 credit
All Levels

Prerequisite (Painting II/III/IV): Must pass prior level.
The student will explore the traditional and experimental techniques in the area of water-color, tempera painting, acrylics, and mixed media. The realistic and non-objective approaches to painting will be explored. The emphasis will be on teaching the student to develop his/her visual and creative powers

and appreciation of different painters and their style of painting. Painting II and III are designed for the student who would like to develop his/her skills more extensively.

PHOTOGRAPHY/GRAPHIC ARTS

CN: AF10

Grade 10 36 wks. 1.0 credit All Levels

The photography (film and digital) section of this course emphasizes camera operation, effective composition, and creative expression. Traditional black and white darkroom techniques and processes are explored. Upon completion, students should be able to successfully expose, develop and print a well conceived composition.

Using graphic design based computer programs and equipment, students will demonstrate an understanding of digital editing, printers, and scanners to capture, manipulate, and output images. This course introduces students to graphic design as a form of visual communication through the use of typography, image, form, and color. Projects explore design processes in visual communication, creative problem solving, and basic design practice.

ART APPRECIATION

CN: AA30

Grades 11 or 12 18 wks 0.5 credit All Levels

This course consists of a broad overview of art history in general. It is made up of a lecture/slide-viewing experience with discussion of artist and styles. An emphasis will be placed on a time period from 1850 to the present. This course is specifically recommended for college-bound students who may be required to take art by a college;

BUSINESS, COMPUTER, & INFORMATION TECHNOLOGY

ADVANCED STANDING CREDIT BUTLER COUNTY COMMUNITY COLLEGE

Students taking Accounting I/II may receive credit for the introductory Butler County Community College course in the same field. To be eligible, the following criteria must be

many colleges and universities and even liberal arts schools require it.

CERAMICS

CN: AC10 (Fall) AC20 (Spring)

Grades 11 or 12 18 wks. each 0.5 credit All Levels

Students may take a maximum of four semesters of Ceramics for credit.

These courses involve the use of clay to make functional projects. Emphasis will be placed on original works; there will be a limited use of molds. Students will work in all the hand built areas and wheel throwing. Students will also be involved with loading and unloading a kiln, mixing glazes, and reprocessing used clay. In subsequent semesters, the emphasis will be on expanding the student's knowledge and working in areas of combining hand built processes.

STUDIO ART

CN: AS30

Grades 11 or 12 18 wks. 0.5 credit All Levels

Prerequisite: Drawing I

Students will problem solve working with a variety of media to create works of artistic expression. Works will be predominantly three-dimensional with emphasis on expression, line, form, color, texture, and mass.

NOTES

met:

- 1) An "A" or "B" must be earned on the high school level.
- 2) Application must be made with the College within two years of the course work. Applications may be obtained from the

Business Department Chairperson at the Senior High School.

BUSINESS MATHEMATICS

CN: BB20

Grades 11 or 12 36 wks 1.0 credit
All Levels

NOTE: Fulfills math credit for CTP Business students

This course reviews the fundamental processes of computation, shortcuts for figuring costs, applications of percentage, interest, discounts, and commissions. It includes problems involving insurance premiums, taxes, and automobile ownership, as well as the buying and selling of stocks, bonds, and other investments. Emphasis is placed on analyzing statement problems and mathematics for personal use.

INTRODUCTION TO BUSINESS

CN: BG10

Grades 9 or 10 36 wks. 1.0 credit All Levels

This course provides the student a broad background about the modern business world. It is an essential course for students who are considering choosing a business major. This course is designed to acquaint students with the role of business in our economy, the forms of organizations, various business functions such as management, personnel, advertising, marketing, accounting, and financing. Career opportunities in the business world and business ethics are also explored. The course will help prepare you for future employment. Note: Computer activities implemented in this course will be taught using Microsoft Office 2010 software.

COMPUTER APPLICATIONS I

CN: BC10

Grades 9 or 10 or 11 or 12 18 wks. 0.5 credit
All Levels

Suggested: Computer Keyboarding

In this course, students will learn how they can use a computer in other classes. They will also gain an appreciation for the ways business and industry use computers. Students will learn all major commands,

features, and options for the operating system, word processing, database, spreadsheet, and presentation applications.

COMPUTER APPLICATIONS II

CN: BC20

Grades 9 or 10 18 wks. 0.5 credit All Levels
Prerequisite: Computer Applications I

This advanced course will provide students with the additional computer knowledge and skills that students need to effectively utilize Microsoft Office 2010. Students will problem-solve and create advanced word processing documents. Then, delve into desktop publishing using Microsoft Publisher 2010®. Students will identify emerging trends in technology by organizing information through advanced database techniques (Access 2010) and learn how to utilize spreadsheets to further analyze data (Excel 2010). Students will learn Print Shop Ensemble and PowerPoint 2010 software, complete internet assignments, create basic web pages designs. Lastly, students will be introduced to multimedia technologies if time and facilities permit.

COMPUTER KEYBOARDING

CN: BK10

Grades 9 or 10 18 wks. 0.5 credit All Levels

This course provides an opportunity for all students to learn to key correctly and develop speed and accuracy on a computer. In addition, students will be introduced to Word, Excel, Access and PowerPoint. There will also be opportunities to explore the Internet.

ACCOUNTING I

CN: BA30

Grades 11 or 12 36 wks. 1.0 credit All Levels

Accounting is the language of business. In Accounting I, emphasis is placed on the process for organizing financial information through the use of the double-entry accounting system. Study covers the basic accounting equation through the complete accounting cycle for both a service and a merchandising business. This is an essential course for anyone who is considering any area of business - whether in college or in the work place.

ACCOUNTING II

CN: BA40

Grade 12 36 wks. 1.0 credit Honors Level

Prerequisite: Accounting I

Accounting II expands on the fundamental concepts and principles of Accounting I. Study begins with a complete review of the accounting cycle for a merchandising business organized as a corporation. Accounting procedures for asset, liability, and equity accounts are covered as well as analyzing financial statements. Partnership and corporate accounting are studied in detail with a cost accounting simulation in the final section of the course.

BUSINESS MULTIMEDIA COMMUNICATIONS

CN: BC50

Grade 11 or 12 36 wks. 1.0 credit All Levels

In order to thrive in a digital environment, students will need digital age proficiencies. This course is designed to expose students to the many digital multimedia technologies available for use. The concept of digital citizenship will be woven throughout the course. Topics and content areas discussed in this course will include Wikis, Glogs, Animoto, Social Publishing (Youblisher, Yudu), Blogging, Goggle Docs, Sound Editing and Podcasting, MovieMaker, Photoshop, and Publisher. The course will include a culminating electronic portfolio project which showcases student work and understanding of the discussed technologies.

MICROSOFT ACCESS

CN: BC40

Grade 11 or 12 18 wks. 0.5 credit All Levels

This course provides an in depth study of database management using Microsoft Access. Database management fulfills both business and personal needs in performing such jobs as accounting, mailing lists, invoicing, patient records, bibliographies, campaign management, personal tracking, and church and non-profit information management. This course is designed to prepare the student to become a Microsoft Certified Applications Specialist (MCAS). See the MCAS certification requirements listed on page 11.

POWERPOINT/OUTLOOK

CN: BT10

Grades 9, 10, 11, or 12 18 wks. 0.5 credit All Levels

PowerPoint is a Microsoft Office application used to create professional presentations by helping the student illustrate his/her ideas with slides, outlines, speaker's notes, and audience handouts. A presentation can include text, clip art, graphs, tables, charts, and even sound or video clips. Outlook is a desktop information manager that helps the student organize information, communicate with others, and manage time. This course is designed to prepare students to become a Microsoft Certified Application Specialist (MCAS). See the MCAS Certification requirements on page 11.

MICROSOFT EXCEL

CN: BC30

Grade 11 or 12 18 wks. 0.5 credit All Levels

This is a computer course designed to provide a comprehensive look at one of the most useful tools in business. Students will learn how to build and format worksheets, work with formulas and functions, publish workbooks to the Web, apply "what-if" analysis procedures, and exchange data with other programs. This course is designed to prepare the student to become a Microsoft Certified Application Specialist (MCAS). See the MCAS certification requirements listed on page 11.

MICROSOFT WORD

CN: BW10

Grades 9, 10, 11, or 12 18 wks. 0.5 credit All Levels

This course provides students with a review

of the concepts of word processing, which are used to learn one of the most popular word processing programs, Microsoft Word. Advanced formatting techniques will be mastered, including the basic elements of desktop and web publishing. This course is designed to prepare the student to become a Microsoft Certified Application Specialist (MCAS). See the MCAS certification requirements on page 11.

BUSINESS MANAGEMENT/MARKETING

CN: BM40

Grade 11 or 12 36 wks. 1.0 credit All Levels

This full-year course will enable students to: 1) acquire a working vocabulary of common business terms; 2) obtain an awareness of the many activities, problems, and decisions involved in successfully operating a business; 3) gain an appreciation of the importance of business, management, and marketing in our economic system; and 4) understand facts, procedures, principles, and concepts needed to become effective members of profit-making and not-for-profit making organizations.

BUSINESS LAW

CN: BB30

Grade 11 or 12 18 wks. 0.5 credit All Levels

This one-semester course is a survey of American law and our rights and responsibilities as individuals in our society. Topics covered include: criminal and civil law, contracts, family law, and the juvenile justice system. Consumer topics such as buying and insuring a car, marriage, renting an apartment, and real and personal property are also covered.

PERSONAL FINANCE

CN: BP30

Grades 11 or 12 36 wks. 1.0 credit All Levels

The Personal Finance course explores people's money habits and how those habits affect their lives. This course is designed to help guide students through the world of personal finance. The Personal Finance

course is broken down into two key areas, the present and the future. The present reflects current money skills and habits, while the future deals with what you can do with your money so it works for you. The course will cover the following topics: Managing Your Money, Budgeting & Record Keeping, Checking, Savings, Investing, The Stock Market, and Credit. Throughout the course, students will participate in realistic simulations in which they must decide on what to do with their money.

COLLEGE SURVIVAL SKILLS

CN: BS30

Grades 11 or 12 18 wks. 0.5 credit All Levels

This one semester course is designed to help students prepare for the rigors of college. The course emphasizes: Note taking and summarizing, using Microsoft Word for college documents and preparing a resume, using Microsoft PowerPoint for creating and presenting at the college level, spreadsheet applications, and a brief review of the keyboard. The curriculum also includes discussions on college life and expectations at the college level. Guest speakers will be scheduled to provide additional college information and preparation.

NOTES

COMPUTER APPLICATIONS & PROGRAMMING

COMPUTER APPLICATIONS I

CN: BC10

Grade 9, 10, 11, or 12 18 wks. 0.5 credit All
Levels

Prerequisite: Computer Keyboarding

In this course, students will learn how they can use a computer in other classes. They will also gain an appreciation for the ways business and industry use computers. Students will learn all major commands, features, and options for the operating system, word processing, database, spreadsheet, and presentation applications.

COMPUTER APPLICATIONS II

CN: BC20

Grade 9 or 10 18 wks. 0.5 credit All Levels

Prerequisite: Computer Applications I

This advanced course will provide students with the additional computer knowledge and skills that students need to effectively utilize Microsoft Office 2010. Students will problem-solve and create advanced word processing

documents. Then, delve into desktop publishing using Microsoft Publisher 2010®. Students will identify emerging trends in technology by organizing information through advanced database techniques (Access 2010) and learn how to utilize spreadsheets to further analyze data (Excel 2010). Students will learn Print Shop Ensemble and PowerPoint 2010 software, complete internet assignments, create basic web pages designs. Lastly, students will be introduced to multimedia technologies if time and facilities permit.

VISUAL BASIC I

CN: MV10

Grades 9 or 10 18 wks. 0.5 credit
Average/Above Levels

Prerequisite: Completion of Algebra I with a "C" or better and PC Windows experience

This hands-on course will teach students with a special interest in learning computer programming how to develop Windows applications using Microsoft Visual Basic. Topics include building an application; writing and debugging code; using forms, variables, input boxes, dialog boxes, and controls. Students will work with basic conditional statements.

VISUAL BASIC II

CN: MV20

Grade 9 or 10 18 wks. 0.5 credit
Average/Above Levels

Prerequisite: Introduction to Visual Basic Programming (Grade of "C" or higher) and Teacher Recommendation

This hands-on course will continue to teach students computer programming to develop Windows applications using Microsoft Visual Basic. The course will focus on building applications using conditional selection structures, option buttons, check boxes, loops, arrays, data files, menus, and dialog boxes.

WEB PUBLISHING

CN: BP10

Grade 9 or 10 18 wks. 0.5 credit All Levels

Web Publishing is a basic introductory course that will expose students to Microsoft FrontPage, HTML, and Internet Explorer.

Students will be introduced to various World Wide Web resources and become acquainted with popular search engines to aid in research and communications. In FrontPage, students will learn proper web page design techniques, create web pages from FrontPage templates, manage related web pages, and understand web page formats and functions. In HTML, students will learn the fundamentals of developing a web page using the HTML programming language, format the web pages created, and make it suitable for course work, professional use, or personal use. A hands-on approach will be used to allow students to practice the principles of FrontPage, HTML, and Internet Explorer applications. This course is for beginners and is not recommended for students with advanced web page creation experience.

BUSINESS MULTIMEDIA COMMUNICATIONS

CN: BC50

Grade 11 or 12 36 wks. 1.0 credit All Levels

In order to thrive in a digital environment, students will need digital age proficiencies. This course is designed to expose students to the many digital multimedia technologies available for use. The concept of digital citizenship will be woven throughout the course. Topics and content areas discussed in this course will include Wikis, Glogs, Animoto, Social Publishing (Youblisher, Yudu), Blogging, Goggle Docs, Sound Editing and Podcasting, MovieMaker, Photoshop, and Publisher. The course will include a culminating electronic portfolio project which showcases student work and understanding of the discussed technologies.

INTRODUCTION TO JAVA PROGRAMMING

CN: CM40

Grade 11 or 12 18 wks. 0.5 credit
Average/Above Levels

Prerequisite: Algebra I

This course provides an introduction to JAVA programming and object-oriented application development. It is intended for beginning programming students in computer science or computer information systems. Fundamentals of JAVA and decision making

with methods and classes will be covered.

INTERMEDIATE JAVA PROGRAMMING

CN: CM50

Grade 11 or 12 18 wks. 0.5 credit
Average/Above Levels Elective Course

Prerequisite: Introduction to JAVA Programming

This course will continue to teach students the principles of computer programming with JAVA. Advanced topics will be covered, including graphical user interfaces, object-oriented application development, the UML, and the Unified Process.

INTRODUCTION TO C++ PROGRAMMING

CN: CM20

Grade 11 or 12 18 wks. 0.5 credit
Average/Above Levels

Prerequisite: Algebra I

This course provides an introduction to programming in the C++ language. C++ is the foundation for computer games, video games, and is a requirement for most Computer Science majors. This course will provide the beginning programmer with solid fundamentals in object-oriented programming.

INTERMEDIATE C++ PROGRAMMING

CN: CM30

Grade 11 or 12 18 wks. 0.5 credit
Average/Above Levels

Prerequisite: Introduction to C++ Programming

This course will continue to teach students the principles of object-oriented programming in C++. Topics covered include arrays, inheritance, GUI, streaming processes, and event-driven programming.

COMPUTER-AIDED DRAFTING (CAD-1)

CN: ID30

Grades 11 or 12 36 wks. 1.0 credit All Levels

This is an introduction to computer-aided drafting and design. Students will learn to operate and understand applications using The Auto CAD 2000 program. Students will learn how to manipulate the interface to

complete technical drawings. Students will also do small projects to relate drawing to building. Drawings produced will be three-view drawings and solid digital models.

COMPUTER-AIDED ENGINEERING (CAD-2)

CN: IE30

Grade 11 or 12 36 wks. 1.0 credit All Levels

Prerequisite: CAD-1 or Technical Drafting I

This is an accelerated drafting and design course. Students are presented with a problem and materials and must design a solution. Students are taught a design process to help in reaching a solution. After completion, students will understand design problems and processes as well as machine processes. Plans that they produce of a given solution will have to be followed to physically produce the solution. The Auto CAD 2000 software will be used to do all drawings. Drawings produced will be three views fully dimensioned and a digital solid model. Students will also prepare technical papers and some verbal speeches on given topics.

COMPUTER-AIDED ARCHITECTURE & DESIGN

CN: IA40

Grade 11 or 12 36 wks. 1.0 credit All Levels

Prerequisite: CAD-1 or Technical Drafting I

This course will extend student knowledge of technical drawing. Students will learn how to manipulate the Auto CAD 2000 Architectural desktop software. Each student will design his/her own structure using the software and prepare a complete set of blueprint plans. Students will then build a scale model of their house.

MICROSOFT ACCESS

CN: BC40

Grade 11 or 12 18 wks. 0.5 credit All Levels

This course provides an indepth study of database management using Microsoft Access. Database management fulfills both business and personal needs in performing such jobs as accounting, mailing lists, invoicing, patient records, bibliographies, campaign management, personal tracking,

and church and non-profit information management. This course is designed to prepare the student to become a Microsoft Certified Application Specialist (MCAS). See the MCAS certification requirements listed on page 11.

(MCAS). See the MCAS certification requirements on page 11.

NOTES

POWERPOINT/OUTLOOK

CN: BT10

Grade 9, 10, 11, or 12 18 wks. 0.5 credit All Levels

PowerPoint is a Microsoft Office application used to create professional presentations by helping the student illustrate his/her ideas with slides, outlines, speaker's notes, and audience handouts. A presentation can include text, clip art, graphs, tables, charts, and even sound or video clips. Outlook is a desktop information manager that helps the student organize information, communicate with others, and manage time. This course is designed to prepare students to become a Microsoft Certified Application Specialist (MCAS). See the MCAS certification requirements on page 11.

MICROSOFT EXCEL

CN: BC30

Grade 11 or 12 18 wks. 0.5 credit All Levels

This is a computer course designed to provide a comprehensive look at one of the most useful tools in business. Students will learn how to build and format worksheets, work with formulas and functions, publish workbooks to the Web, apply "what-if" analysis procedures, and exchange data with other programs. This course is designed to prepare the student to become a Microsoft Certified Application Specialist (MCAS). See the MCAS certification requirements listed on page 11.

MICROSOFT WORD

CN: BW10

Grade 9, 10, 11, or 12 18 wks. 0.5 credit All Levels

This course provides students with a review of the concepts of word processing, which are used to learn one of the most popular word processing programs, Microsoft Word. Advanced formatting techniques will be mastered, including the basic elements of desktop and web publishing. This course is designed to prepare the student to become a Microsoft Certified Application Specialist

ENGLISH

PROJECT REQUIREMENT:

All students will complete a project in their 12th grade English class as detailed on page four.

English.....4.0 credits Required for Graduation

- English 9 (Required, 1 credit)
- English 10 (Required, 1 credit)
- English 11 (Required, 1 credit)
- English 12 (Required, 1 credit)

As outlined in the current English curriculum guide for grades 9-12, students will follow a prescribed course of study that encompasses literature, grammar, writing, listening and speaking activities appropriate to grade and course difficulty level.

The current curriculum has been developed in order to instruct and assess the following Pennsylvania Academic Standards:

- ↪ Learning to Read Independently
- ↪ Reading Critically in All Content Areas
- ↪ Reading, Analyzing and Interpreting Literature
- ↪ Types of Writing
- ↪ Quality of Writing
- ↪ Speaking and Listening
- ↪ Characteristics and Functions of the English Language
- ↪ Research

In addition, English classes in grades 9-11 will administer the 4Sight Reading Assessment test three times per school year to assess student performance in reading to better tailor the needs of students in each class to achieve improved performance in not only language arts but also on the PSSA Reading Assessment test administered in the spring of the 11th grade year.

Teachers in all grades will also administer and assess at least one multi-paragraph writing assignment per semester using the domain scoring rubric used by the Pennsylvania Department of Education in order to better prepare students for proficient performance on the PSSA Writing Assessment test, which is also administered in the spring of the 11th grade year.

As students enter the senior high school, course options expand to include Advanced Placement level courses, which are designed to meet national curriculum standards as established by The College Board, and which are to reflect college-level difficulty. Courses continue to be offered at English, Academic, Honors, and College Tech-Prep levels.

It is strongly recommended that any student planning to complete a two-year or four-year college degree after high school should be enrolled in Honors, AP, or College Tech Prep courses from grades 9-12. Average-level English courses are not designed for college-hopeful students.

In addition to the current graduation requirements, each student must demonstrate proficiency in reading on the Pennsylvania System of School Assessment (PSSA), or on a District assessment, or provide evidence of proficiency in reading and mathematics as determined by the District (Board approved 6/21/04).

ENGLISH 9

CN: EB10

Grade 9 36 wks. 1.0 credit Basic Level

Prerequisite: Pg. 10, Admission To
Basic Level Courses

If, in English courses, a student has had difficulty keeping pace with other students because he/she reads more slowly than they do or has trouble with basic writing skills (composition, spelling, and grammar), the student might choose this fundamental English program. The year will be presented in two semesters that cover grammar, literature, and sentence/paragraph writing. Library skills and dictionary study are integrated into this course of study. **Students in this course are required to take the end-of-course Keystone Exam.**

ENGLISH 9, ACADEMIC

CN: EA10

Grade 9 36 wks. 1.0 credit Average Level

This course presents a variety of literary genres, with a special concentration on the novel, mythology, and short story. Also included are an introduction to Shakespearean drama and emphasis on poetry, speech, and library research skills. Throughout the course, the student ties each aspect of the study together by writing paragraphs as the basic unit of composition and reinforcing grammar skills. **Students in this course are required to take the end-of-course Keystone Exam.**

ENGLISH 9, HONORS

CN: EH10

Gifted: EH14

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grade 9 36 wks. 1.0 credit Honors Level

Suggested: "B" average in Honors English 8

This course stresses a combination of essay writing, a variety approach to literature, and a special concentration on mythology. Besides the literature study, the major concentration will stress writing five paragraph essays and the application of these essays to the separate area studied. Library research skills are integrated into this course. Modifications are available for gifted students. **Students in this course are required to take the end-of-course Keystone Exam.**

INTRODUCTION TO MEDIA COMMUNICATIONS

CN: EC10

Grade 9 or 10 18 wks. 0.5 credit Average/Above Levels

NOTE: TECH PREP STUDENTS ONLY OR BY APPROVAL OF COLLEGE TECH PREP COOR.

This course will cover the history of the various electronic forms of mass communications media and their impact on today's society. It will also include the application of basic skills and terms used in the production of electronic media. This class will be required for CTP Broadcast Communications students.

INTRODUCTION TO VIDEO PRODUCTION

CN: ER10

Grade 10 18 wks. 0.5 credit
Average/Above Levels Elective Course

NOTE: TECH PREP STUDENTS ONLY OR BY APPROVAL OF COLLEGE TECH PREP COOR.

This course introduces the student to basic concepts of TV Program Construction and Videography. Students will script, storyboard, and analyze program patterns. There will be extensive use of camcorders where students will learn framing, shot composition, shot sequencing, vectors, continuity, and basic camera movements.

CTP COMMUNICATIONS I

CN: ET10

Grade 9 36 wks. 1.0 credit Average/Above Levels

NOTE: COLLEGE TECH PREP STUDENTS ONLY

This course is an activity-oriented approach to learning English/communication skills and uses a variety of print, video, and hands-on teaching techniques to reach each student's learning style. A concentrated study of literature selections will be matched with learning activities aimed at achieving occupational and communications competency. **Students in this course are required to take the end-of-course Keystone Exam.**

CTP COMMUNICATIONS II

CN: ET20

Grade 10 36 wks. 1.0 credit Average/Above Levels

NOTE: COLLEGE TECH PREP STUDENTS ONLY

This course continues the thematic study of various genres of literature, emphasizing collaboration and critical thinking, and using an activities approach designed to maximize the learning potential of all students. It will also develop competency in both oral and written communication skills. Students in this course are required to take the end-of-course Keystone Exam.

CTP COMMUNICATIONS III**CN: ET30**

Grade 11 36 wks. 1.0 credit Average/Above Levels

NOTE: COLLEGE TECH PREP STUDENTS ONLY

This is the third English studies component for students enrolled in a College Tech Prep program. Course material meets English, language, and literature requirements for all students as described in the planned course approved by the District. In addition, this course concentrates on skills needed to function successfully in college and the workplace. Students will develop writing proficiency, research skills, and speaking skills by completing project proposals and presentations.

CTP COMMUNICATIONS IV**CN: ET40**

Grade 12 36 wks. 1.0 credit Average/Above Levels

NOTE: COLLEGE TECH PREP STUDENTS ONLY

This is the final English course in the College Tech Prep Program. Course material meets English language and literature requirements for all students as described in the planned course approved by the District. Students will demonstrate competence in skills required in college and the work place through small group projects and multi-media presentations. Emphasis is placed on improving research, writing, and speaking skills as preparation for college level experience.

ENGLISH 10**CN: EB20**

Grade 10 36 wks. 1.0 credit Basic Level

Prerequisite: Pg. 10, Admission To Basic Level Courses

This course stresses the introductory approach to literature and paragraph writing begun in

ninth grade. Since most students scheduling this course have difficulties with reading, the course work revolves around reading comprehension and the writing of paragraphs about the literature studied. Library skills are integrated into this course. Students in this course are required to take the end-of-course Keystone Exam.

ENGLISH 10, ACADEMIC**CN: EA20**

Grade 10 36 wks. 1.0 credit Average Level

This course combines paragraph and essay writing with a variety approach to literature, investigating the genres of poetry, short fiction, novel, Greek and Shakespearean drama, and nonfiction. It contains a special concentration on multi-cultural literature, such as Hebrew and Asian sources of wisdom, African epic, and Arthurian legend. Building on the ninth grade experience in writing, the student works toward maturity in style, correctness in the conventions of writing, and improvement in development and organization. Much of the writing will be literature based. Students in this course are required to take the end-of-course Keystone Exam.

ENGLISH 10, HONORS**CN: EH20****Gifted: EH24**

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grade 10 36 wks. 1.0 credit Honors Level

Suggested: "B" average in Honors English 9

This course explores major works of world literature. Students will study the individual selections in relation to their historical contexts and discover the elements that connect the works. Reinforcement of the organization of the multi-paragraph essay and of the research skills necessary for a documented paper is the writing focus. Modifications are available for gifted students.

Students in this course are required to take the end-of-course Keystone Exam.



JOURNALISM I

CN: EJ10

Grades 9 or 10 18 wks. 0.5 credit
Average/Above Levels

Students with a strong interest in writing should consider this course. During Journalism I, students will concentrate on the process of journalistic methods including: journalistic laws and ethics, interviewing skills, Associated Press writing style, layout and design, advertising, and research. The areas of sports, news, features, and opinion writing will be reviewed. In addition, students will examine professional newspapers and present current event projects.



JOURNALISM II

CN: EJ20

Grades 9 or 10 18 wks. 0.5 credit
Average/Above Levels

Prerequisite: Journalism I & teacher recommendation

In Journalism II, students will concentrate on the final product as they use the knowledge from Journalism I to create the school newspaper, *The Tornado Times*. Students will learn the hands-on approach to creating a newspaper from the design conception to the finished product. During this class, students will be responsible for two or more stories for the monthly publication. In addition, students will work on creating layouts with the PageMaker computer program and improving writing skills. Please note that this class is writing intensive.

VOCABULARY ENRICHMENT & TEST TAKING

CN: EV20

Grades 9 or 10 18 wks. 0.5 credit
Average/Above Levels (Elective Course)

This course is designed to increase the student's vocabulary on both the speaking (actual) and reading (comprehension) levels by examining prefixes, suffixes, and root words. The student learns to use the dictionary and thesaurus more effectively and efficiently. Also, students will be introduced to and practice strategies designed to improve their ability to take standardized tests, such as the SAT.

ENGLISH 11

CN: EB30

Grade 11 36 wks. 1.0 credit Basic Level

*Prerequisite: Pg. 10, Admission to
Basic Level Courses*

In this course, the development of writing and reading skills will be emphasized. The study of writing skills will include grammar and the writing process. Importance will be placed on the application of these skills in students' own work, including a career related research project and multi-paragraph essays. Reading skills will be improved in correlation with writing skills through the use of various texts, which build upon students' learning. Reading skills will be further developed through the use of targeted PSSA practice, with the PSSA Coach Book, to enhance students' skills of comprehension, vocabulary, analysis, etc.

ENGLISH 11, ACADEMIC

CN: EA30

Grade 11 36 wks. 1.0 credit Average Level

This course will emphasize the skills associated with critical reading, single and multi-paragraph writing, and to a lesser degree, research. Students will read fiction and non-fiction from selected American writers, but special emphasis will be placed on activities geared to preparation for the PSSA Grade 11 Reading test. Students will also review elements of grammar and the writing process while constructing paragraphs and essays. Application of research skills, including library and computer usage, will also be incorporated.

ENGLISH 11, HONORS

CN: EH30

Grade 11 36 wks. 1.0 credit Honors Level

*Recommended: "A" in English 10, Average
"A" or "B" in English 10, Honors*

Through the reading of major American writers from the colonial period to modern times, students will become familiar with the development of American Literature and the influence of important historical events upon that literature. In addition, students will work

on a variety of challenging assignments to sharpen their skills in comprehension, essay writing, language and grammar skills and research with emphasis upon completing a documented paper in the spring term. This course is recommended for college-bound students.

ENGLISH 11, A.P.

CN: EH70

Gifted: EH77

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grade 11 36 wks. 1.0 credit Advanced Placement

Prerequisite: Teacher recommendation

Recommended: "A" or "B" in English 10, Honors

In this highly challenging, college freshman-level course, students will trace the development and characteristics of American Literature, sampling major writers and the influences upon them. Students will regularly engage in close and critical reading while they also discover how to use writing to question, clarify, and make meanings through journals and a multitude of response papers. Students will sharpen formal rhetoric skills through essay assignments, library research, and documented writing. Knowledge of the MLA Handbook and mastery in the usage of Standard English are assumed. **Summer reading and writing assignment completion are a course requirement.**

ENGLISH 12

CN: EB40

Grade 12 36 wks. 1.0 credit Basic Level

Prerequisite: Pg. 10,

Admission To Basic Level Courses

This course will review, reinforce and build upon the skills of reading and writing that were taught in English 11 Basic. Once again emphasis will be placed upon reading and writing skills and emphasis will be placed on the application of these skills in students' own work. Reading skills will be improved in correlation with writing skills through the use of various fictional and non-fictional works. As with eleventh grade, reading skills will be further developed through the use of explicit practice to enhance students' skills of comprehension, vocabulary, summarization, analysis, etc.

ENGLISH 12, ACADEMIC

CN: EA40

Grade 12 36 wks. 1.0 credit Average Level

This course will review and build upon the skills developed in English 11 Average. As with the previous year, the course will focus on the skills associated with writing, reading, and research. Learning will occur through a connected process of instruction and application in order to prepare students for entrance into the workforce.

ENGLISH 12, HONORS

CN: EH40

Grade 12 36 wks. 1.0 credit Honors Level

The student in this course will explore the development of British literature, studying major writers and literary forms in each historical period. Students will also work, through varied assignments, to improve writing and research skills as preparation for college level experiences.

ENGLISH 12, A.P.

CN: EH80

Gifted: EH87

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grade 12 36 wks. 1.0 credit Advanced Placement

Prerequisite: Teacher Recommendation

Recommended: "A" or "B" in English 11, AP or an "A" in English 11, Honors

This course is for students with strong interests in reading, discussion, and analysis of literature. **Summer reading in preparation for English 12, A.P. is required.** Students will work from sources that range from epic, classic, tragic, and Utopian literature. Emphasis is placed upon written responses to analytic questioning. In the second part of this advanced course, students will continue their studies of the classics with emphasis upon major British writers. Proficiency and mastery of the Modern Language Association Handbook documentation protocol is assumed. Also, students will refine their writing and analytical skills by completing several research projects while applying critical thinking skills. This course is designed to prepare students for the advanced placement examination given in the spring.

JOURNALISM III, SR. HIGH

CN: EJ40

Grades 11 or 12 36 wks. 1.0 credit All Levels

Elective Course

The objective of this course is the production of the Senior High School newspaper, *Skyliner*. In order to understand the place of the media in society and practice journalistic skills, students will write news and features, create photographs, develop marketing strategies, and sell advertising. This course is strongly recommended for students interested in media careers.

**LITERATURE OF COMMUNITY
RELIGIONS**

CN: EL31

Grades 11 or 12 18 wks. 0.5 credit (Humanities)
All Levels

Elective Course is graded "Pass/Fail"

This elective course will review the literature of the Bible and other religious writings as a study of literature. The literature of the Bible will be used in the study of history, civilization, ethics, and comparative religions. The course is open to students of all denominations and will be taught by clergy representing the various faiths in the surrounding communities.

**DRAMA PRODUCTION,
PARTS I and II**

Part I CN: ED31

Part II CN: ED32

Grades 11 or 12 18 wks. each
(Part I - Fall/Part II - Spring) 0.5 credit each
Average/Above Levels

Elective Course is graded "Pass/Fail"

*Prerequisite: Instructor approval through auditions
Mandatory Requirements: Evening rehearsals & performances and a minimum of 15 Saturday scenery construction hours*

In Part I of this course, students will produce a children's play for touring at Butler Elementary Schools and an evening of one-act plays in January. Part II, offered in the spring term, will focus on the production of the Butler All-School Play. During both semesters, students will have

the opportunity to audition, practice acting skills, and/or learn how to produce a play. In terms of production, students will learn about and participate in necessary publicity and aspects of technical theater including set construction. Each semester, students will be able to participate in evening and weekend rehearsals, set a construction on Saturdays, and weekend performances. Grading for the class will be according to a Pass/Fail system, based upon the student meeting the requirements for his or her production responsibilities and/or acting roles.

**VOCABULARY/
CRITICAL THINKING SKILLS**

CN: EV30

Grade 11 or 12 18 wks. 0.5 credit
Elective Course

Special emphasis will be placed upon learning to take standardized tests, including tips on sentence completion, reading comprehension questions, and practice with such higher-level thinking skills as analysis and drawing inferences. Students will work to increase their vocabulary through reading, memorization, and drill using both individualized programmed material and whole class instruction. Work on study habits will include such activities as time management assignments, paraphrasing of test material, note taking strategies, and memorization techniques.

**IHS ENGLISH MAKE-UP,
PARTS I and II**

Fall CN: EM21

Spring CN: EM22

Grade 11 18 wks. 0.5 credit each

Prerequisite: Failure of English 9 or 10

In these make-up courses, primary emphasis will be placed on nonfiction/informational reading assignments and improvement in critical reading skills such as determination of main idea, recall of facts, understanding inferences, recognizing synonyms and antonyms, summarizing and paraphrasing, and distinguishing between fact and opinion. Other areas of content will include short

fiction, drama, common usage errors and writing. Students may take either course to make-up one failed semester or both courses to make-up two failed semester. However, neither course may be repeated.

PUBLIC RELATIONS and ORGANIZATIONAL COMMUNICATIONS

CN: EJ30

Grade 11 or 12 18 wks. 0.5 credit
Average/Above Levels

This course is designed to introduce students to a variety of written and oral skills necessary for success in a communications-related career. Students will learn the basics of public relations and practice the methods needed to establish and maintain communication between an organization and the public. Students will receive instruction in the areas of marketing and product publicity, employee and consumer relations, and technical writing. This course is recommended for any student who may pursue a degree in communicative arts; careers in law, religion, education, labor relations, politics, marketing, and human resource development; or any student who wants to improve written or oral communication skills.

TV/VIDEO PRODUCTION, PART I

CN: ER31

Grade 11 or 12 18 wks. 0.5 credit each
Average/Above Levels Elective Course

Students in this course are required to participate in work outside of the regular school day

Students will learn the behind-the-scenes operations of TV/Video Production. This will include a knowledge of the personnel necessary to create a TV program and the duties and responsibilities of each. This will enable students to explore various career paths in the TV/Video Production field. Basic aspects of pre-production and production will be explored including concept development, scripting, and storyboarding. Emphasis will be placed on elements of the camera, shot composition, and editing. In addition, basic lighting techniques and audio principles will be introduced.

TV/VIDEO PRODUCTION, PART II

CN: ER32

Grades 11 or 12 18 wks. 0.5 credit
Average/Above Levels Elective Course

Prerequisite: TV/Video Production, Part I

Students in this course are required to participate in work outside of the regular school day.

This course is a natural continuation of TV/Video Production, Part I. Students will primarily focus on the production of the BTTV Newsmagazine Show. Students will be responsible for investigating, writing, filming, and editing news packages for on-air use. Professional news broadcasts will be analyzed and critiqued, with special attention paid to newsworthiness, fairness, credibility, and thoroughness.

BTTV PRODUCTION

CN: ER61 (Fall) CN: ER62 (Spring)

Grades 11 or 12 18 wks. 0.5 credit
Average/Above Levels Elective Course

Students are responsible for the productions of the Senior High School's morning announcement show. Students will learn the skills necessary to operate broadcasting equipment behind the scenes and act as on-air anchors for the daily show. Students will also write, film and edit a creative weekly feature to run on the morning show. Members of this class will serve as the production crew for the annual Caring Angels Community Celebration, live on television to the entire community.

ADVANCED TELEVISION PRODUCTION

CN: ER42

Grade 12 18 wks. 0.5 credit
Average/Above Levels Elective Course

Prerequisite: TV/Video Production, Parts I and II

Students in this course are required to participate in work outside of the regular school day

This course is a natural continuation of TV/Video Production, Part II. All phases of

pre-production, production, and post-production will now come to fruition. Students will learn about all elements of film production and history. Well-known films will be analyzed as a method of studying effective filming and writing techniques. Students will be responsible for writing, producing, filming, directing, and editing a short narrative film.

RADIO PRODUCTION

CN: ER50

Grade 11 or 12 18 wks. 0.5 credit
Average/Above Levels Elective Course

This course looks at the basic principles of recording sound, producing radio spots, and performing a format program. Radio history, transmission of radio signals, and various delivery styles will also be explored. Students will be placed in a regular rotation schedule for the live "Radio Café" radio show. **Students will be expected to prepare for and host a live radio show, within station guidelines, on a regular basis.**

SPEECH/INTERPRETATION/ DEBATE

CN: ES31

Grades 11 or 12 18 wks. 0.5 credit
Average/Above Levels Elective Course

This course is designed to improve speaking and listening skills. Students learn to recognize rhetorical devices and to use them in their own speeches. Students present informative, persuasive, and extemporaneous speeches, along with interpretations of prose and poetry selections. The fundamentals of debate will be examined, and students will participate in various styles of debate using the techniques discussed.

PSSA PREPARATION - IHS

CN: PSSO

Grades 9 or 10 36 wks. 1.0 credit All Levels
Prerequisite: Students who score below or only slightly above proficient in math and/or reading on the eighth grade PSSA, other standardized tests, or 4Sight Benchmark Assessments

This is a skills-based course aimed at addressing individual needs to build identified skills that will help students reach proficiency on future assessments. Students will be working with both printed materials and a computer

program in large group, small group, and individual settings. The school will notify students eligible for this course. Students who continue to be non-proficient on the PSSA exams and the 4Sight Benchmark exams and are recommended by administration and staff to take a PSSA Prep course **cannot opt out** of taking that PSSA Prep course.

PSSA PREPARATION - SHS

CN: PT30

Grade 11 36 wks. 1.0 credit All Levels
Prerequisite: Students who score below proficient in either reading or mathematics on previous PSSA exams and/or local quarterly assessments, and/or teacher recommendation

This course is skills based focusing on improved reading and mathematics skills directly related to the PSSA exams. Reading skills include word recognition, phonetic analysis, contextual analysis, comprehension, and reading rate. The mathematics skills address such areas as numbers and operations, measurement, geometry and algebra concepts, data analysis, and probability. Students work in small groups and on computer based instruction in programs such as *Class Works Gold* and the *PSSA Coach* series. Through review, core class support, and regular practice assessments, the goal is to assist students in acquiring and reinforcing the skills needed to achieve proficiency on the PSSA exams. Students rotate through sequences of math/reading skills. The teachers establish individual and group programs through team teaching and cooperative learning.

FAMILY AND CONSUMER SCIENCES

INFANT CARE AND DEVELOPMENT

CN: FC09

Grades 9 or 10 18 wks. 0.5 credit All Levels

This class is designed for the student who wants to learn about relationships, pregnancy and infant care. Students taking the class do not need to be planning careers working with children, but will gain knowledge and skills related to pregnancy and infants that can be used later in their own lives.

FAMILY & PRENATAL DEVELOPMENT

CN: FC10

Grades 9 or 10 18 wks. 0.5 credit All Levels

Requirement for Child Development CTP Students

This course is designed to give students insight into responsible decision making concerning family situations, pregnancy, and child development. Topics deal with families, parenthood, pregnancy, labor and delivery, and the physical, social, emotional, and intellectual development of newborns.

INFANT & TODDLER DEVELOPMENT

CN: FC20

Grades 9 or 10 18 wks. 0.5 credit All Levels

Requirement for Child Development CTP Students

*Open to Non-CTP Students with
Teacher recommendation*

This course will focus on what to do with infants and toddlers: how they grow, how they learn, and how they interact. Topics such as theories of development, normal growth and development, discipline, and nutrition will be covered.

EARLY CHILDHOOD DEVELOPMENT

CN: FC30

Grades 11 or 12 18 wks. 0.5 credit All Levels
No prerequisite; however, Family & Prenatal and Infant & Toddler are highly recommended.

This course focuses on the study of children from three years to eight years of age and children with special needs. Issues such as educational theorists and developmentally appropriate activities are discussed. Observation skills are introduced with two days of job shadowing/observation of preschoolers and children with special needs being required. Child Development Associate-Ready Certificate and Pennsylvania Keystone Star requirements for child care providers are introduced. Several community service projects are part of this class experience. Anyone interested in teaching with preschoolers or elementary aged level children would be interested in this class. You do not have to be part of CTP to take this class.

ADOLESCENT DEVELOPMENT

CN: FC40

Grades 11 or 12 18 wks. 0.5 credit All Levels

*No prerequisite; however,
Preschool Development is recommended*

This course focuses on the study of adolescents and is designed for those interested in working with them. Issues such as adolescent development, education theorists, teaching and learning styles,

children with special needs are discussed. Observation skills, subject area academic standards are introduced. Two days of job shadowing are required for this class. Several community service projects are part of this class experience. Those students interested in social work, psychology, or teaching upper elementary or secondary education would benefit from this class. You do not have to part of CTP to take this class.

CHILD DEVELOPMENT/FIELD EXPERIENCE

CN: FC52 (Spring Only)

Grades 11 or 12 18 wks. (2 pds/day) 1.0 credit
All Levels

Prerequisite: Early Childhood Development or Adolescent Development are required before taking this class.

This is required for Child Development CTP Students

This course is designed to study "Teaching of....topics". Various strategies used to teach children from preschool to early adolescents are discussed. The highlight of this course is a nine-week (four days per week) active participation experience in an early childcare setting, primary elementary, or junior high setting where our students get "hands-on" experience with working with students in real classrooms under the direction of real teachers. The students are bussed to this experience from the Senior High. Child Development Associate-Ready competencies, a daily experience log, lesson plan booklet, and a planned unit become an integral part of the student portfolio.

EXPLORING FOODS I

CN: FD10

Grades 9 or 10 18 wks. 0.5 credit All Levels

This beginning level class builds a foundation for experience in the kitchen. Personal and food safety, sanitation, basic food preparation techniques and cooking methods are learned as students prepare a wide variety of foods. For example, students will learn the principles of baking as they prepare quick breads, cookies, and pizza. Nutrition and meal planning finish the semester. Evaluation includes written assignments and quizzes, as well as kitchen participation.

EXPLORING FOODS II

CN: FD20

Grades 9 or 10 18 wks. 0.5 credit All Levels

Prerequisite: Exploring Foods I

This intermediate level foods class expands on the principles learned in Exploring Foods I. Yeast dough and pastry, vegetables, one-dish meals, and meat and poultry are among the topics covered. More advanced nutrition information and meal planning for special occasions finish the semester. Evaluation includes quizzes and written assignments, as well as hands-on kitchen experience.

REGIONAL AND INTERNATIONAL COOKING

CN: FF10

Grades 9 or 10 18 wks. 0.5 credit All Levels

Prerequisite: Exploring Foods I

Students' interest will help determine which regions of the U.S. and foreign countries will be explored. This class builds on the skills learned in Exploring Foods I. Students will be evaluated by kitchen participation, individual assignments, and tests.

INTERIOR DESIGN I

CN: FI10

Grades 9 or 10 18 wks. 0.5 credit All Levels

In this course, students learn the principles and elements of design and how to apply them into a workable room. Practical application projects include working with color, pattern, texture and backgrounds. Students also learn how to draw a floor plan and use it to arrange furniture. A final project includes designing an original room and furnishing it to scale.

INTERIOR DESIGN II

CN: FI30

Grades 11 or 12 18 wks. 0.5 credit All Levels

This course is designed to give the students a basic understanding of the principles and elements of design and its practical application in their living space. Historic period and its impact on current styles are also studied. Students will work on kitchen and/or bath design in particular. No artistic ability is required, just an interest in design and how spaces, colors, and styles relate to each other and how they affect our environment.

NEEDLECRAFTS I

CN: FN10

Grades 9 or 10 18 wks. 0.5 credit All Levels

Learn basic skills of creative needlecrafts such as how to embroider with floss and yarn; quilt; do counted cross-stitch; and use waste canvas, plastic canvas, and needlepoint. Make things for yourself, your home, or as gifts. Students pay \$5.00 (which can be waived in case of need) to help cover the cost of course supplies.

SEASONAL CRAFTS I

CN: FN31 (Fall Only)

Grades 11 or 12 18 wks. 0.5 credit All Levels

This is a course for all students learning the basic skills of crafting for fall and winter. Craft projects range from blanket making to scrap booking and knitting to sewing. Create for yourself or others. Students are responsible for paying for some of their own supplies.

SEASONAL CRAFTS II

CN: FN32 (Spring Only)

Grades 11 or 12 18 wks. 0.5 credit All Levels

This is a course for all students learning the basic skills of crafting for spring and summer. Students will do basic crochet, quilting, and other crafts suitable to the season. Students are responsible for paying for some of their own supplies. Seasonal Crafts I is not required in order to take Seasonal Crafts II.

SEWING BASICS I

CN: FS10

Grades 9 or 10 18 wks. 0.5 credit All Levels

Developing good sewing machine skills is the basis for this course. A variety of projects will introduce students to the many possible uses of the sewing machine. Personal clothing and accessorized decorative items for the home will provide a variety of experiences. Students are responsible for the purchase of all supplies and materials for the class.

SEWING BASICS II

CN: FS20

Grade 9 or 10 18 wks. 0.5 credit All Levels

This course builds on the skills learned in

Sewing I and introduces students to higher level skills. Students will create a variety of items for personal use and are responsible for the purchase of all materials and supplies.

ADULT ROLES

CN: FA30

Grades 11 or 12 18 wks. 0.5 credit All Levels

Adult Roles explores all aspects of adult life: personality development, health communication, and relationships with family and friends. The course also touches on: mate selection, marriage, divorce, parenthood, handling crisis, aging, and death.

COOKING NOW I

CN: FF31 (Fall Only)

Grades 11 or 12 18 wks. 0.5 credit All Levels

This course emphasizes basic principles of nutrition, meal planning, and food preparation, including a Thanksgiving dinner and construction of a gingerbread house.

MINI-FOODS

CN: FF40

Grades 11 or 12 18 wks. 0.5 credit All Levels

This course is designed for those students who plan to take one foods course. In this class, you will learn how to work efficiently in the kitchen while preparing breakfast, lunch, and dinner. Diet and nutrition will also be emphasized.

COOKING NOW II

CN: FF32 (Spring Only)

Grades 11 or 12 18 wks. 0.5 credit All Levels

Prerequisite: Foods I or Mini-Foods

This course includes a study of the culture and cuisine of the regions in the United States and other countries. Cooking skills, diet and nutrition will be emphasized. Winter and spring holidays, such as Valentine's Day, St. Patrick's Day, and Mardi Gras will be celebrated.

SINGLE SURVIVAL

CN: FV30

Grades 11 or 12 18 wks. 0.5 credit All Levels

In this course, students will learn how to make informed decisions such as purchasing a car, selecting an apartment, banking and establishing credit, finding a job, and filing their income tax returns. Students will practice dealing with future responsibilities in a positive, effective way.

TEEN PARENTING PROGRAM

(Counselor/Coordinator must schedule)

Grades 9-12 18 wks. 0.5 credit All Levels

Only female students (who are pregnant and/or parenting) and male students (who are parenting) are permitted to make selections from this program.

Prenatal

The Prenatal class explores all aspects of pregnancy from conception through postpartum. Male and female students study about the changes happening to the mother as well as the development of the new human being during pregnancy. Father's issues as well as some new born care is discussed.

Infant Development considers the care of and interaction with the child from birth throughout the first year of life. Students learn about the developmental areas and the realities of caring for a child from feeding and diapering to playing and being the child's first teacher.

Toddlers and Pre-School Children

Students study how the three areas of development change as children move through toddler and pre-school years. They continue to deal with the realities of care as soon-to-be parents of children of this age.

Choices

Students will consider the decisions he/she must make regarding his/her future and the realities of paying the bills while living apart from parents/guardians.

Parenting

Students study relationships, realities of independent living while parenting and issues of discipline.

For more information, contact the Teacher/Coordinator, Kelly Erdos at 214-3200, Ext. 5337.

NOTES

Newborns and the First Year

HEALTH/PHYSICAL EDUCATION

Health Ed.....0.5 credit required for graduation

Physical Ed...1.0 credit required for graduation

Phys. Ed. 9 (Required, .25 credit)

Phys. Ed. 10 (Required, .25 credit)

Phys. Ed. 11 (Required, .25 credit)

Phys. Ed. 12 (Required, .25 credit)

CPR/FIRST AID

CN: PC20

Grades 9 or 10 or 11 or 12 18 wks. 0.5 credit
(Elective) All Levels

NOTE: Does not fulfill graduation requirements for Health

This course is based on American Red Cross First Aid and CPR programs. The content of the course includes adult, child, and infant

rescue breathing, choking rescue, CPR, automated external defibrillation, and first aid basics. Certification is possible for each area, but not a requirement for passing the class. There will also be information about how to live heart healthy lives, how to protect yourself from infectious disease, and up-to-date information concerning drugs, society, and behavior.

**COMPREHENSIVE
PERSONAL HEALTH**

CN: PH20

Students must scheduled as follows:

Last Names F-P during Grade 10 and any student planning to take Vo-Tech in Grade 11

Last Names A-E, R-Z during Grade 11
Grades 10 or 11 18 wks. 0.5 credit
Required For All Students All Levels

This course will provide a program of health instruction designed for students to evaluate their current health behaviors and attitudes. It will build health skills such as goal setting, decision making, stress and mental health management, fitness, and nutrition. This program also features up-to-date information on HIV/AIDS; drugs and substance abuse; the cost of addiction, both personally and to society; and the impact of drugs on the family.

PHYSICAL EDUCATION

Girls CN: PG10

Boys CN: PB10

Grades 9 and 10 and 11 and 12 18 wks. 0.25 credit All Levels

This course includes units on co-educational activities, personal fitness, and individual and team sports. The class will include 12 weeks of gym and six weeks of swimming. Each student will have the opportunity to develop aquatic skills, as well as skills developed in the regular physical education program. Participation in pool, floor, and field activities will provide each student with greater opportunities for receiving a total physical education. Skill tests, written tests, and class participation will be used to evaluate the student. **Students must pass one physical education course each year grades 9-12.**

ADAPTIVE PHYSICAL EDUCATION

CN: PA31 (Fall) PA32 (Spring)

Grades 9 or 10 or 11 or 12 18 wks. 0.25 credit All Levels

Note: Fulfills P.E. graduation requirement

Prerequisite: Medical excuse

This co-educational course is designed for those students who are physically unable to participate in regular activity class for more than two weeks. A medical excuse and adaptive form signed by the physician must be available to the instructor the first week of the course. Activities will depend on each student's capabilities and physician's recommendations. This course follows the same guidelines as regular P.E. class. The student will be enrolled for the entire semester. Students will be required to change into physical education clothes when possible.

LIFEGUARDING

CN: PL20

Grades 10 or 11 or 12 18 wks. 0.25 credit All Levels

Note: Fulfills P.E. graduation requirement

This co-educational course is based on American Red Cross Lifeguarding. It is designed for the advanced swimmer who seeks possible certification, although certification is not required for passing the course. The student will be evaluated on individual skill testing, timed tests, endurance tests, and written exams. The American Red Cross requires a swimming pretest. Students may be required to take a pre-swim examination, along with having teacher recommendation.

NOTES

INDUSTRIAL ARTS/ TECHNOLOGY EDUCATION

GENERAL METALWORKING

CN: IM09

Grades 9 or 10 18 wks. 0.5 credit All Levels

In this overview of metalworking, students will receive instruction on the safe and efficient use of basic metalworking tools and machines. Several projects will be made which employ the techniques, tools, and machines of working with metal. Students are required to provide a pair of safety glasses, with clear lenses, for this course; and pay for the materials used to produce projects.

GENERAL WOOD MANUFACTURING

CN: IW09

Grades 9 or 10 18 wks. 0.5 credit All Levels

In this overview of wood manufacturing, as students make various projects, they will learn and apply various manufacturing concepts. Students will also discover how to safely and efficiently use the basic woodworking hand tools and machines. Students are required to provide a pair of safety glasses, with clear lenses, for this course; and pay for the materials used to produce projects.

HOME MAINTENANCE & IMPROVEMENT

CN: II10

Grades 9 or 10 18 wks. 0.5 credit All Levels

This course will provide the students an opportunity to learn the necessary skills to properly maintain and improve their homes. Areas of exploration will include various building materials, material estimation, and

basic construction principles. Units of study will include, but are not limited to, framing, electrical circuits, drywall, painting, plumbing, roofing, masonry, and yard work. Students are required to provide a pair of safety glasses, with clear lenses, for this course.

METALWORKING I

CN: IM10

Grades 9 or 10 36 wks. 1.0 credit All Levels

This course is a study of the metalworking industry, including the properties and uses of ferrous and nonferrous metals through various manufacturing and production techniques. Student projects relating to the various units will be designed and constructed. Students are required to provide a pair of safety glasses, with clear lenses, for this course; and pay for the materials used to produce projects.

METALWORKING II

CN: IM20

Grade 10 36 wks. 1.0 credit All Levels

Prerequisite: Metalworking I

This advanced metalworking course includes foundry, welding, and machine shop practices. Students will produce projects that combine all techniques studied in the previous metalworking course. Students are required to provide a pair of safety glasses, with clear lenses, for this course; and pay for the materials used to produce projects.

TRANSPORTATION TECHNOLOGY

CN: IK10

Grades 9 or 10 18 wks. 0.5 credit All Levels

The student will explore the basic types of transportation systems. Areas of exploration will include land, air, and sea vessels. Sources of energy and a variety of power systems will be covered. Emphasis will be placed on the study of the internal combustion engine as the common energy source in many transportation vehicles. Laboratory practices supported by theory will serve as the learning activities. In addition, students will develop skills in the area of design and the proper and safe usage of tools and machines. Career opportunities in transportation and its related fields will also be explored. Evaluations will be based upon the successful completion of assignments, tests, and teacher observation. Students are required to provide a pair of safety glasses, with clear lenses, for this course; and pay for the materials used to produce projects.

TECHNOLOGY DESIGN & APPLICATION **CN: ID10**

Grades 9 or 10 18 wks. 0.5 credit All Levels

This course will allow students to design and build solutions to technological problems. Students will develop computer skills as well as construction technique skills to solve problems that engineers are faced with. Units of study will include, but are not limited to, design factors in the following areas: aerospace, flight, automotive, structural, and prototypes.

TECHNICAL DRAFTING I **CN: IT10**

Grades 9 or 10 36 wks. 1.0 credit All Levels

This course is an introduction to drafting and design for students interested in learning how engineering is done using drawings. Students will use basic drafting equipment, read simple blueprints, and use technical drawings to show the size and shape of objects. Types of drawings covered include, but are not limited to, orthographic projection, isometric, and two point perspective. Students will be introduced to Autodesk Software, using AutoCAD, Inventor, and Architectural Desktop.

TECHNICAL DRAFTING II **CN: IT20**

Grade 10 36 wks. 1.0 credit All Levels

Prerequisite: Technical Drafting I

This course is a continuation of Technical Drafting I. Students will continue with the use of Autodesk Software to communicate technical information. This includes Architectural Desktop, AutoCAD, Inventor, and Revit Building. Areas of engineering addressed will include mechanical engineering, architectural engineering, and structural engineering. 3D modeling will be used to create working drawings of engineering parts.

WOOD MANUFACTURING I **CN: IW10**

Grades 9 or 10 36 wks. 1.0 credit All Levels

In this course, students will study wood manufacturing concepts in greater depth and apply them to various projects. Students will discover how to safely and efficiently use wood working tools and machines. Students will learn how to cut, join, and finish wood projects. Students are required to provide a pair of safety glasses, with clear lenses, for this course; and pay for the materials used to produce projects.

WOOD MANUFACTURING II **CN: IW20**

Grade 10 36 wks. 1.0 credit All Levels

Prerequisite: Wood Manufacturing I

This advanced wood manufacturing course is designed to challenge the skill of each student. Special woodworking techniques will be taught. The student will have the opportunity to construct more difficult projects while applying manufacturing concepts to their work. Students are required to provide a pair of safety glasses, with clear lenses, for this course; and pay for the materials used to produce projects.

AUTOMATION **CN: IR30**

Grades 11 or 12 18 wks. 0.5 credit All Levels

This course provides a variety of introductory experiences in industrial automation. Instruction will include theoretical application as well as practical hands on laboratory applications. Lab time will be based on robotics, automatic guided vehicles, bar coding, and other automated systems used in today's manufacturing industry. Students will learn what automation is its advantages and disadvantages and how they are applied in the real world.

ELECTRONICS

CN: IL30

Grades 11 or 12 18 wks. 0.5 credit All Levels

NOTE: Recommend "C" or better in Algebra I

An introduction to AC and DC circuit theory and analysis. The theory includes electrical measurement systems, Ohm's law, circuit theorems, and component characteristics. Laboratory work provides experiences with electrical components, schematics, electrical tools, and basic electrical and electronic instrumentation.

DIGITAL ELECTRONICS

CN: IL40

Grades 11 or 12 18 wks. 0.5 credit All Levels

Prerequisite: Electronics

An introduction to the theory and application of logic gates, Boolean algebra, combinational logic, sequential logic, and counters. Laboratory experiments provide experiences with digital integrated circuits and circuit behavior.

COMPUTER-AIDED DRAFTING (CAD-1)

CN: ID30

Grades 11 or 12 36 wks. 1.0 credit All Levels

This is an introduction to computer-aided drafting and design. Students will learn to operate and understand applications using Auto CAD. Students will learn how to

manipulate the interface to complete technical drawings. Students will also do small projects to relate drawing to building. Drawings produced will be three-view drawings and solid digital models.

COMPUTER-AIDED ENGINEERING (CAD-2)

CN: IE30

Grade 11 or 12 36 wks. 1.0 credit Avg./Above Levels

Prerequisite: CAD-1 or Technical Drafting I

This course is an accelerated drafting and design course. Students are presented with a problem and materials and must design a solution. Students are taught a design process to help in reaching a solution. After completion, students will understand design problems and processes as well as machine processes. Plans that they produce of a given solution will have to be followed to physically produce the solution. Auto CAD will be used to do all drawings. Drawings produced will be three views fully dimensioned and a digital solid model. Students will also prepare technical papers and some verbal speeches on given topics.

COMPUTER-AIDED ARCHITECTURE & DESIGN

CN: IA40

Grade 11 or 12 36 wks. 1.0 credit All Levels

Prerequisite: CAD-1 or Technical Drafting I

This course will extend student knowledge of technical drawing. Students will learn how to manipulate Auto CAD Architectural desktop software. Each student will design his/her own structure using the software and prepare a complete set of blueprint plans. Students will then build a scale model of their house.

NOTES

JUNIOR ROTC LEADERSHIP DEVELOPMENT

LEADERSHIP I

CN: JR10

Grade 9 or Teacher Recommendation 36 wks.
1.0 credit All Levels

This course covers introduction to JROTC, leadership theory, drill and ceremonies, hygiene and first aid, map reading, techniques of oral communications, cadet challenge (physical training and testing), and an introduction to JROTC-10. These instructions are on an introductory level and are supplemented by the Instructor's optional subjects, which are selected to motivate and expand the academic and vocational aspects of the cadets.

LEADERSHIP II

CN: JR20

Grade 10 or Teacher Recommendation 36 wks.
1.0 credit All Levels

Prerequisite: JROTC-9

This course covers intermediate leadership, drill and ceremonies, first aid, map reading, techniques of oral communications, drug, alcohol, and tobacco abuse, service and Senior ROTC opportunities, cadet challenge (physical training and testing), and an introduction to JROTC-11. Instruction of material is at an intermediate level and builds upon previous instruction. Selected Instructor's subjects are also included to cover timely topics and build leadership motivation.

LEADERSHIP III

CN: JR30

Grade 11 or Teacher Recommendation 36 wks.
1.0 credit All Levels

Prerequisite: JROTC -10

This course covers applied leadership, drill and ceremonies, map reading, land navigation, techniques of oral communication, service and ROTC opportunities, and cadet challenge (physical training and testing). The Instructor's optional subjects are taught to expand upon the previous skills and knowledge learned during JROTC-9 and JROTC-10 and to emphasize hands-on or performance-type instruction.

LEADERSHIP IV

CN: JR40

Grade 12 or Teacher Recommendation 36 wks.
1.0 credit All Levels

Prerequisite: JROTC-11

This course covers advanced leadership techniques, drill and ceremonies, staff functions and procedures, advanced communications, and the cadet challenge (physical training and testing). The Instructor's optional subjects are taught to expand on other subject areas, cover timely topics of interest, allow for guest speakers, and cover opportunities available after graduation.

PROJECT REQUIREMENT:

All students will complete a project in their 9th grade Mathematics class as detailed on page four.

Mathematics.....3.0 credits required for graduation

In addition to the current graduation requirements, each student must demonstrate proficiency in math on the Pennsylvania System of School Assessment (PSSA), or on a District assessment, or provide evidence of proficiency in reading and mathematics as determined by the District (Board approved 6/21/04).

APPLIED MATH I

CN: MM10

Grade 9 or 10 36 wks. 1.0 credit Basic/Average Levels

Prerequisite: Math Lab 8 or Math 8 & Teacher Recommendation

This course is the first of a three-year sequence designed to build fundamental math skills while applying this knowledge to real life situations. This course will include: decimals, fractions, patterns, ratios, proportions, percentages, probability, measurement, and basic algebra and geometry topics. Hands-on activities and projects will be used to teach some of the key concepts. This course is applicable for students who are considering pursuing a vocational or technical post-secondary education.

APPLIED MATH II

CN: MM20

Grade 10, 11, or 12 36 wks. 1.0 credit Basic/Avg. Levels

Prerequisite: Applied Math I & Teacher Recommendation

This course is the second of a three-year sequence designed to build fundamental math skills while applying this knowledge to real life situations. This course will include: algebraic equations and inequalities, graphing of lines, exponents, and analyzing data. Students will also build on the knowledge from Applied Math I by extending their knowledge of the concepts taught in the previous year. Hands-on activities will be used to teach some of the key concepts. This course is applicable for students who are considering pursuing a vocational or technical post-secondary education.

APPLIED MATH III

CN: MM30

Grades 11 or 12 36 wks. 1.0 credit Basic/Avg. Levels

Prerequisite: Applied Math I & II and Teacher Recommendation

This course is the third of a three-year sequence designed to build fundamental math skills while applying this knowledge to real-life situations. This course will continue to develop algebraic and geometric skills for the students to master. Topics will include: algebraic equations, graphing in the coordinate plane, applications of proportion and percent, geometry, graphing and analyzing data, and probability. This course is applicable for students who are considering pursuing a vocational or technical post-secondary education.

PRE-ALGEBRA

CN: MA00

Grade 9 or 10 36 wks. 1.0 credit Basic/Avg. Levels

Prerequisite: Grade of "C" or better in Mathematics 8 and Teacher recommendation

This course will emphasize algebraic skills and concepts such as: variables, one-step and multi-step equations, inequalities, laws of exponents, graphing linear equations, and polynomials. Other topics include the data analysis, probability, and an introduction to geometry. This course is designed to prepare a student to take Algebra I the following year.

CTP ALGEBRA I

CN: MT10

Grade 9 36 wks. 1.0 credit Average/Above Levels

NOTE: FOR COLLEGE TECH PREP STUDENTS ONLY

College Technical Algebra teaches algebraic concepts in relation to their applications in occupational settings. The course materials are designed to engage students in cooperative teams, allowing them to participate in laboratory-centered, hands-on activities that make mathematics concepts practical and relevant. CTP Algebra is a competency-based course that emphasizes problem solving, decision making, and hands-on learning. **Students in this course are required to take the end-of-course**

Keystone Exam.

ALGEBRA I

CN: MA10

Grades 9, 10, 11, or 12 36 wks. 1.0 credit
Average/Above Levels

Prerequisite: Teacher Recommendation

This is the first course of an academic sequence. Algebra is recommended for those students planning any post-secondary education. The course consists of solving equations and inequalities in one and two variables, polynomials, factoring, laws of exponents, systems of linear equations, and graphing linear equations. Also included is a presentation on rational and irrational expressions and concepts of quadratic equations. Real world applications and verbal problems are stressed. **Students in this course are required to take the end-of-course Keystone Exam.**

CTP ALGEBRA II

CN: MT30

Grades 10 or 11 36 wks. 1.0 credit Avg/Above Levels
NOTE: FOR COLLEGE TECH PREP STUDENTS ONLY

*Prerequisite: CTP Algebra I or Algebra I
CTP Geometry or Geometry*

This course is designed to enhance and expand the knowledge of Algebra acquired in CTP Algebra I. The same strategies of cooperative learning in laboratory activities are used. Many of the same concepts covered in a regular Algebra II course will be studied with the emphasis on solving real-life problems requiring an algebraic model. Graphing calculators and computers will be important tools in problem solving activities. **Students in this course are required to take the end-of-course Keystone Exam.**

ALGEBRA II

CN: MA20

Grades 9, 10, 11, or 12 36 wks. 1.0 credit
Average/Above Levels

*Prerequisite: Algebra I and Geometry or
Honors Geometry*

Methods of problem solving, reasoning, communication and connections with real-world problems are emphasized in this course. Graphing calculators will be used when appropriate. Some topics included are polynomials, factoring, linear & quadratic

equations & inequalities, exponential & logarithmic functions and matrices. Solving various types of systems of equations & graphing procedures will be stressed. Optional topics will include conics, elementary probability, and statistics. **Students in this course are required to take the end-of-course Keystone Exam.**

HONORS ALGEBRA II

CN: MA30

Gifted: MA34

*(Gifted enrollment is limited to students in the
Gifted Program and must be approved by
Gifted Coordinator/GIEP)*

Grade 9 or 10 36 wks. 1.0 credit Honors Level

*Prerequisite: Algebra I and Geometry
or Honors Geometry*

This course is designed to challenge the better academic math student. The subject matter for this course is similar to that of Algebra II; however, problems encountered are generally more difficult. Methods of problem solving, reasoning, communication & connections with real-world problems are emphasized. Graphing calculators will be used. Some topics included are polynomials, factoring, linear, and quadratic equations & inequalities, exponential & logarithmic functions, matrices, and sequences & series. Solving various types of systems of equations & graphing procedures will be stressed. Probability and statistics and introduction to trigonometry will be included as time permits. Modifications are available for gifted students. **Students in this course are required to take the end-of-course Keystone Exam.**

GEOMETRY

CN: MG20

Grades 9, 10, 11, or 12 36 wks. 1.0 credit
Average Level

Prerequisite: Algebra I

This course is designed so that the student “discovers” the relationships of geometry using inductive reasoning. Geometric figures, including lines, parallel and perpendicular lines, angles, angle relationships, triangles, quadrilaterals, circles, and three-dimensional drawings are studied. Students are also exposed to the concept of “proof” in an informal way using flow charts. **Students in this course are required to take the end-of-course Keystone Exam.**

HONORS GEOMETRY

CN: MG30

Grades 9 or 10 36 wks. 1.0 credit Honors Level

Prerequisite: Algebra I and Teacher Recommendation

This course is designed to challenge the better academic math student. The student “discovers” the relationships of geometry inductively then strives to prove them deductively as a formal two-column proof. Geometric figures, including lines, angles, angle relationships, triangles, quadrilaterals, circles, and three-dimensional drawings are studied. Problems encountered are generally more difficult than in Geometry. Modifications are available for gifted students.

Students in this course are required to take the end-of-course Keystone Exam.

CTP GEOMETRY

CN: MT20

Grades 9 or 10 36 wks. 1.0 credit
Average/Above Levels

Prerequisite: CTP Algebra I or Algebra I

NOTE: For College Tech Prep Students Only

College Tech Prep Geometry incorporates geometric concepts and their occupational applications. Each chapter connects the concepts learned with a laboratory activity that makes the material relevant. Figures studied include lines, triangles, polygons, quadrilaterals, coordinate and transformational geometry. Applications and problem solving are emphasized in the areas of agriculture and agribusiness, business and marketing, health occupations, family and consumer economics and industrial technology.

Students in this course are required to take the end-of-course Keystone Exam.

PRECALCULUS, PART I

CN: MB30

Grade 11 or 12 36 wks. 1.0 credit
Average/Above Levels

Prerequisite: Algebra II and Geometry

This course is designed for the student who completed Algebra II successfully, but found it to be somewhat challenging. These are students who perhaps have not mastered the concepts but who do want to further their math education in Precalculus at a slower pace. Consultation with a math teacher is recommended.

The first semester includes a more in depth study of a variety of functions with an emphasis on graphing and application. Inequalities are also

taught.

The second semester deals with the study of trigonometric functions including evaluating and graphing. Scientific and graphic calculators are used throughout.

PRECALCULUS, PART II

CN: MB40

Grade 12 36 wks. 1.0 credit Honors Level

Prerequisite: Precalculus, Part I

This course is a continuation of Precalculus, Part I. There is a continued study of functions that now include inverse functions, exponential, and logarithmic as well. Also included in first semester is the study of conic sections. Second semester continues with the remaining topics of trigonometry as well as the polar coordinate system. There is an introduction to calculus such as basic limits and, if time permits, the concept of derivatives.

Approximately six chapters are covered. After successfully completing Precalculus, Part I and Precalculus, Part II, the students will receive honors credit for Precalculus, Part II.

HONORS PRECALCULUS

CN: MC30

Grades 10, 11, or 12 36 wks. 1.0 credit
Honors Level

Prerequisite: Algebra II and Geometry, A or B Student, and teacher recommendation.

This course includes the study of equations and inequalities. It includes the study of many functions such as inverse, polynomial, rational, exponential, and logarithmic. Students are expected to work with them analytically, as well as with a graphing calculator. It is highly suggested, but not mandatory, that students have their own graphing calculator. The second semester is a comprehensive course of trigonometry. Right triangle trig, unit circle trig, and solving trig equations are included. Conic sections are also taught. If time permits, limits and a brief introduction to calculus is included. A student who is not successful in the first semester of Honors Precalculus may be placed in Precalculus, Part I for the second semester.

A.P. CALCULUS AB

CN: MC70

Gifted: MC77

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grades 11 or 12 36 wks. 1.0 credit Adv. Placement

Prerequisite: Honors Pre-Calculus and

Important theorems from algebra, analytic geometry, and the theory of functions are reviewed in this course. It includes the study of derivatives and integrals of algebraic and transcendental functions and applications of derivatives and integrals. Anyone successfully completing this course may choose to take the A.P. Calculus AB Advanced Placement Mathematics Test given in May of each year. Course time is devoted to practice tests and preparation for this exam. Depending on the test score, students may earn college credits in math and/or advanced placement in math. This course is designed to prepare students for the advanced placement examination given in the spring. Graphing calculators are an integral part of the course. It is highly suggested that students provide their own graphing calculator.

A.P. CALCULUS BC

CN: MC80

Gifted: MC87

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grade 12 36 wks. 1.0 credit Adv. Placement

Prerequisite: A.P. Calculus AB and Teacher Recommendation

This challenging advanced placement course is a continuation of study for those students who have taken AP Calculus AB. In the first part of the course, students will review for mastery the concepts presented in Calculus AB. The main focus of the course will be on the new topics for the Calculus BC exam. These topics include differential and integral calculus and series. Course time will also be devoted to practice tests and preparation for the advanced placement exam. Students who score well on the AP exam, may earn college credits. This course is designed to prepare students for the advanced placement examination given in the spring. Graphing calculators are an integral part of the course. It is highly suggested that students provide their own graphing calculator.

A.P. STATISTICS

CN: MS70

Gifted: MS77

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grade 11 or 12 36 wks. 1.0 credit Adv. Placement Level

Prerequisite: Algebra II, A or B Student, Teacher Recommendation

This course consists of methods of descriptive and

inferential statistics. Topics include data collection and description, hypothesis testing, correlation and regression, the analysis of variance, and contingency tables. Students will learn how to use a statistical calculator. Students may elect to take the Advanced Placement exam upon completion of this course. This course is designed to prepare students for the advanced placement examination given in the spring. Graphing calculators are an integral part of the course. It is highly suggested that students provide their own graphing calculator.

PSSA PREPARATION - IHS

CN: PSS0

Grades 9 or 10 36 wks. 1.0 credit All Levels

Prerequisite: Students who score below or only slightly above proficient

in math and/or reading on the eighth grade PSSA, other standardized tests, or 4Sight Benchmark Assessments

This is a skills-based course aimed at addressing individual needs to build identified skills that will help students reach proficiency on future assessments. Students will be working with both printed materials and a computer program in large group, small group, and individual settings. The school will notify students eligible for this course. Students who continue to be non-proficient on the PSSA exams and the 4-Sight Bench Mark exams and are recommended by administration and staff to take a PSSA Prep course **cannot opt out** of taking that PSSA Prep course.

PSSA PREPARATION - SHS

CN: PT30

Grades 11 36 wks. 1.0 credit All Levels

Prerequisite: Students who score below proficient in either reading or mathematics on previous PSSA exams and/or local quarterly assessments, and/or teacher recommendation

This course is skills based focusing on improved reading and mathematics skills directly related to the PSSA exams. Reading skills include word recognition, phonetic analysis, contextual analysis, comprehension, and reading rate. The mathematics skills address such areas as numbers and operations, measurement, geometry and algebra concepts, data analysis, and probability. Students work in small groups and on computer based instruction in programs such as Study Island and the PSSA Coach series. Through review, core class support, and regular practice assessments, the goal is to assist students in acquiring and reinforcing the skills needed to achieve proficiency on the PSSA exams. Students rotate through sequences of math/reading skills. The teachers

establish individual and group programs through team teaching and cooperative learning. Students who continue to be non-proficient on the PSSA exams and the 4-Sight Bench Mark exams and are recommended by administration and staff to take a PSSA Prep course **cannot opt out** of taking that PSSA Prep course.

PSSA PREPARATION 2 - SHS

CN: MR40

Grade 12 36 wks. 1.0 credit All Levels

Prerequisite: Highly recommended for students who were not proficient in math on the Grade 11 PSSA exam and/or teacher recommendation

This course will focus on mathematics skills directly related to the PSSA exam. The skills-

based content will include such areas as numbers and operations, measurement, geometry and algebra concepts, data analysis, and probability. The goal of the class is to reinforce the skills necessary to achieve proficiency on the PSSA exam retest. Students who continue to be non-proficient on the PSSA exams and the 4-Sight Bench Mark exams and are recommended by administration and staff to take a PSSA Prep course **cannot opt out** of taking that PSSA Prep course.

NOTES

MUSIC

BAND I - IHS

MARCHING/SYMPHONIC/JAZZ BAND

CN: NB21 (Fall) NB22 (Spring)

Grades 9 and/or 10 36 wks. 1.0 credit

Prerequisite: Audition

This course is designed to introduce the student to a variety of musical experiences providing exposure to a wide range of advanced music literature through participation in several different ensemble settings. Students will participate in Marching Band during the first 12 weeks and Symphonic Band the remaining 24 weeks. Interested students may audition for Jazz Band which meets as a pull-out class, simultaneous with Symphonic Band, during the final 18 weeks. This class includes after school, evening, travel, and Band Camp obligations.

BAND II - SHS

MARCHING, SYMPHONIC/JAZZ BAND

CN: NB31 (Fall) NB32 (Spring)

Grades 11 and/or 12 36 wks. 1.0 credit

Prerequisite: Audition

A continuation of Band I, this course will offer a more advanced level of musical experiences and cover a wider range of advanced music literature through participation in a variety of ensemble settings. Students will participate in Marching Band during the first 12 weeks and Symphonic Band the remaining 24 weeks. Interested students may audition for Jazz Band which meets as a pull out class, simultaneous with Symphonic Band during the final 18 weeks. This class includes after school, evening, travel, and Band Camp obligations.

SEQUINETTES (Fall Only)

CN: NS11

Grades 9, 10, 11, 12 18 wks. 0.5 credit

This performance group participates as part of the Marching Band. The class includes after-school, evening, travel, and Band Camp obligations. Students must be selected for the group through audition.

GIRLS' ENSEMBLE I

CN: NC21 (Fall) NC22 (Spring)

Grades 9 and/or 10 36 wks. 1.0 credit

Prerequisite: Audition

This course is designed for the student whose background includes an advanced level of experience in both vocal technique and fundamental musicianship. A wide range of advanced Soprano I/Soprano II/Alto and Soprano I/Soprano II/Alto I/Alto II music will be performed.

GIRLS' ENSEMBLE II

CN: NL31 (Fall) NL32 (Spring)

Grades 11 and/or 12 36 wks. 1.0 credit

Prerequisite: Audition

As an extension of Girls' Ensemble I, this course is designed for the student whose background includes an advanced level of experience in both vocal technique and fundamental musicianship. A wide range of advanced SSA and SSAA music will be studied and performed.

INTRODUCTION TO GUITAR

CN: NG10

Grades 9 or 10 18 wks. 0.5 credit

This course is intended as a BEGINNING

FUNDAMENTALS OF GUITAR

CN: NG50

Grades 11 and/or 12 18 wks. 0.5 credit

This course is a beginning level class designed for students with little or no previous music experience. Basic techniques of acoustic guitar playing will be presented, including chordal accompaniment and melodic reading. Students will learn how to read guitar tablature and music notation.

INSTRUMENTAL ENSEMBLE I

CN: NB11 (Fall) NB12 (Spring)

Grades 9 and/or 10 36 wks. 1.0 credit

This course is designed to offer instrumental students an opportunity to continue the development of their musical skills in a smaller ensemble experience. This group is a non-performing ensemble.

MIXED CHORUS

CN: NC11 (Fall)/NC12 (Spring)

Grades 9 and/or 10 36 wks. 1.0 credit

This course will stress the fundamental elements and techniques of vocal production and style, music reading, and will familiarize the student with a variety of repertoire.

GIRLS' CHORUS

CN: NC01 (Fall)/NC02 (Spring)

Grades 9 and/or 10 36 wks. 1.0 credit

This course will stress the fundamental elements and techniques of vocal production and style, music reading, and will familiarize the student with a variety of repertoire.

MIXED ENSEMBLE

CN: NC31 (Fall)/NC32 (Spring)

Grades 9 and/or 10 36 wks. 1.0 credit

Prerequisite: Audition

This course will provide exposure to a wide range of choral literature. It is designed for the student whose background includes an advanced level of experience in both vocal technique and musicianship.

instruction course in guitar playing. BEGINNING reading and accompaniment skills will be emphasized. No previous experience is necessary. This course may be taken for credit once each year.

CHANTICLEER SINGERS

CN: NC51 (Fall)

CN: NC52 (Spring)

Grades 11 and/or 12 36 wks. 1.0 credit OR
Grades 11 and/or 12 18 wks. 0.5 credit

Prerequisite: Audition

This course will provide the student an opportunity to study and perform a wide variety of both classical and contemporary music. School and community performances will include advanced choral literature.

PIANO CLASS I

CN: NP10

Grades 9 or 10 18 wks. 0.5 credit

This course is designed to establish fundamental keyboard techniques, music reading skills (treble and bass clef), and basic keyboard theory for a beginning student. No previous musical experience is required.

PIANO CLASS II

CN: NP20

Grades 9 or 10 18 wks. 0.5 credit

Prerequisite: Piano Class I or Audition

This course is a continuation of Piano Class I and is designed to further develop music reading skills and keyboard techniques. Additional key signatures and rhythms will be presented.

PIANO CLASS III

CN: NP30

Grade 10 18 wks. 0.5 credit

Prerequisite: Piano Class II or Audition

This course is an intermediate level piano class designed to continue the further advancement of music reading skills and keyboard techniques, scales, and literature in a variety of key signatures.

PIANO CLASS IV

CN: NP40

Grade 10 18 wks. 0.5 credit

Prerequisite: Piano Class III or Audition

This course is an advanced level piano class designed to further develop music reading skills

and keyboard techniques through the study of more advanced music and supplemental materials.

FUNDAMENTALS OF PIANO

CN: NP50

Grades 11 or 12 18 wks. 0.5 credit

This course is a beginning level class designed for students with little or no previous music experience. Basic keyboard techniques, music reading skills (treble and bass clef), and keyboard theory will be presented. This course is a condensed version of Piano I and II, and students who have already taken Piano I or II are not eligible to schedule Fundamentals of Piano.

STRING ORCHESTRA I

CN: N011 (Fall)/N012 (Spring)

Grades 9 and/or 10 36 wks. 1.0 credit

Prerequisite: Audition

This course is intended to offer the student an opportunity to develop a repertoire ranging from traditional orchestral literature to popular music. Individual musical skill development will be encouraged in the areas of tone, intonation, rhythm, technique, and expression.

STRING ORCHESTRA II

CN: N031 (Fall)/CN: N032 (Spring)

Grades 11 and/or 12 36 wks. 1.0 credit OR
Grades 11 and/or 12 18 wks. 0.5 credit

Prerequisite: Audition

A continuation of String Orchestra I, this course offers the student an opportunity to further develop a wider range of orchestral music.

CONCERT CHOIR

CN: NC41 (Fall)/CN: NC42 (Spring)

Grades 11 and/or 12 36 wks. 1.0 credit OR
Grades 11 and/or 12 18 wks. 0.5 credit

Prerequisite: Audition

This course is designed to provide experiences in a wide range of Soprano/Alto/Tenor/ Bass choral literature in the medium-difficult to difficult range. Vocal technique, choral concepts and music reading skills will be stressed.

MUSIC & TECHNOLOGY

INTRODUCTION TO MUSIC TECHNOLOGY & COMPOSITION

CN: NT10

Grades 9 and/or 10 18 wks. 0.5 credit

This course is designed to introduce students to music technology through the use of fundamental piano skills, music theory, and music notation software. The class will make use of the keyboard and computer lab. This course would be helpful to students planning on taking computers, MIDI, and Electronic Music Production at the Senior High School.

MUSIC THEORY

CN: NT30

Grades 11 and/or 12 18 wks. 0.5 credit

This course will introduce students to the foundations of music theory. Topics will include notation, intervals, scale forms, triads, chord progressions, voice leading, and rhythm. Information will be presented by way of computer software, lecture, and demonstrations.

COMPUTERS, MIDI, & ELECTRONIC MUSIC PRODUCTION I

CN: NE30

Grades 11 and/or 12 18 wks. 0.5 credit

This course is designed to introduce students to various topics in computer-generated music. Musical Instrument Digital Interface, notation software, sequencing, and multimedia possibilities are topics that will be included. This is a hands-on course with students assigned to computer work stations. The content and presentation is project oriented.

COMPUTERS, MIDI, & ELECTRONIC MUSIC PRODUCTION II

CN: NE40

Grades 11 and/or 12 18 wks. 0.5 credit

Prerequisite: Computers, MIDI, & Electronic Music Production I

This course would provide an additional semester allowing more time to greatly expand and explore Midi Technology and Computer-generated music

with students. The necessary hardware and software are already in place. Projects can encompass a greater scope, and students will be able to learn more of the techniques and features available with Sibelius II software.

THE ART OF AUDIO RECORDING

CN: NR30

Grades 11 and/or 12 18 wks. 0.5 credit

This course will give students an introduction to the field of professional sound recording. Students will learn a brief history of recording, the set-up process for various recording projects, and how to use some high quality audio recording equipment, as well as home studio consumer equipment. Students will get hands-on experience using recording gear in most aspects of audio production starting with studio set-up and ending with CD

creation, jacket cover design, and distribution.

THE ART OF AUDIO RECORDING II

CN: NR40

Grades 11 and/or 12 18 wks. 0.5 credit

Prerequisite: The Art Of Audio Recording

This class will pick up where The Art Of Audio Recording left off, giving students more experience using mixers, microphones, and recording software and hardware. This class will be project-based and hands-on, incorporating knowledge of the science behind audio recording along with musical aspects as well.

NOTES

SCIENCE

PROJECT REQUIREMENT:

All students will complete a project in their 11th grade Science class as detailed on page four.

Science . . . 3.0 credits required for graduation

COMPREHENSIVE SCIENCE

CN: SB10

Grade 9 36 wks. 1.0 credit

Prerequisite: Admission to Applied Level Courses

This is a modified evaluated and paced science course. Applied Comprehensive Science focuses on chemical, physical, earth and space science. Student experiences will include problem solving, reading for understanding, labs, projects and research. Student participation and authentic science is stressed.

CTP SCIENCE 9

CN: ST10

Grade 9 36 wks. 1.0 credit Average/Above Levels

NOTE: For College Tech Prep Students only

This course will stress careers and hands on activities that provide a glimpse into how individuals employed in certain careers use science. Emphasis will be on earth sciences, astronomy, chemistry and physics.

ACADEMIC

COMPREHENSIVE SCIENCE

CN: SA10

Grade 9 36 wks. 1.0 credit Average Level

This is an average level course that focuses on earth, space, chemical and physical science. Student participation is stressed. Experiences will include labs, projects, problem solving, research and reading for understanding.

FORENSIC SCIENCE

CN: SF10

Grade 10 18 wks. 0.5 credit Avg./Above Levels

NOTE: For College Tech Prep Students only

Forensic science is a combination of biology, chemistry, and mathematics used in the analysis of criminal evidence. Some of the topics that will be discussed are: crime scene investigations,

fingerprinting, DNA fingerprinting, hair analysis, fiber analysis, handwriting, blood analysis, poisons and blood spatter.

BIOLOGY

CN: SB20

Grade 10 36 wks. 1.0 credit Basic Level

Prerequisite: See Pg 9., Admission to Basic Level Courses

Basic biological principles will be examined during the course of the year. Topics will include the cell, biochemistry, genetics, ecology, and natural selection. Emphasis will be placed on the nature of science through various laboratory experiences and investigations. **Students in this course are required to take the end-of-course Keystone Exam.**

CTP BIOLOGY

CN: ST20

Grade 10 36 wks. 1.0 credit Average/Above Levels

NOTE: For College Tech Prep Students Only

This is a course in Applied Biology that incorporates biological concepts and practices into everyday life and the workplace.

An emphasis on cells and cellular processes including DNA, genetics, and natural selections will take place. In addition, an examination of ecology will occur. Emphasis will be given to the scientific method, laboratory experiences, and the practical application of these skills and knowledge.

Students in this course are required to take the end-of-course Keystone Exam.

ACADEMIC BIOLOGY

CN: SA20

Grade 10 36 wks. 1.0 credit Average/Above Levels

Academic biology is a comprehensive course that is designed to provide students with an in-depth understanding of major biological concepts. The course includes the following topics: cells, protein synthesis, biochemistry, genetics and ecology.

Students in this course are required to take the end-of-course Keystone Exam.

HONORS BIOLOGY

CN: SH10

Gifted: SH14

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grade 9 or 10 36 wks. 1.0 credit Honors Level

Prerequisite: An "A" in science or "A" or "B" in Algebra I.

This is a high level, fast-paced course for the committed science student. Topics include ecology, natural selection, biochemistry, cellular activities, genetics, and classification. Modifications are available for gifted students.

Students in this course are required to take the end-of-course Keystone Exam.

MOLECULAR BIOLOGY

CN: SB40

Grades 11* or 12 18 wks. 0.5 credit Avg./Above Levels

Prerequisite: At least a "C" in Biology and Chemistry

**Note for 11th grade students - may only be taken concurrently with Physics (any level)*

This course is a study of general, organic, and biochemistry. Experimental labs include chemical reaction identification, ester synthesis, nutrient analysis, acid base characteristics, solution identification, urinalysis, and DNA extraction. Designed for students actively interested in a healthcare field and required for the Allied Health strand in the CTP Program.

A.P. BIOLOGY

CN: SB70

Gifted: SB77

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grades 11* or 12 36 wks. (10 pds./week) 1.0 credit
Advanced Placement

Prerequisite: "A" or "B" in both Biology and Chemistry.

*Note for *11th grade students - this course may only be taken concurrently with Physics (any level)*

Designed for students pursuing medical, veterinarian, and healthcare professions, this college-level course is fast paced and lab-oriented. Course content with accompanying labs includes cell biology, biochemistry, heredity, molecular genetics, thermodynamics, ecological principles, animal and plant structure and function, and evolution. This course is designed to prepare students for the AP exam given in the spring.

HEALTH CARE and CAREER APPLICATIONS

CN: ST60

Grade 11* or 12 18 wks. 0.5 credit
Average Level

Prerequisite: At least a "C" in Biology and successful completion of or enrolled in Chemistry.

**Note for 11th grade students - this course may only be taken concurrently with some level of Chemistry or Physics.*

This course introduces students interested in health-related careers to core concepts that are reflected throughout the health professions. The course is based on authentic application of concepts including therapeutic communications, medical law and ethics, medical waste management, clinical and diagnostic procedures, as well as the investigation of health careers. Students will participate in hands-on application of principles and project-based assessments.

ANATOMY & PHYSIOLOGY

CN: ST50

Grade 11* or 12 36 wks. 1.0 credit
Average/Above Levels

Prerequisite: "C" or above in Biology and successful completion of or enrollment in Chemistry.

**Note for 11th grade students - this course may only be taken concurrently with some level of Chemistry or Physics.*

This course is designed to prepare students for healthcare or medical careers. The ten systems of the body are explored with many lab experiences offered. Actual and virtual dissections of various mammalian structures are performed along with case studies and diagnostic activities to enhance students' problem-solving skills.

CTP PHYSICS

CN: ST30

Grade 11 or 12 36 wks. (7 pds/week) 1.0 credit
Average/Above Levels

Prerequisite: Completion of or enrollment in CTP Algebra II or Algebra II and successful completion of Chemistry.

This is a cooperative hands-on course designed for the needs of the College Tech Prep Student. CTP Physics is a laboratory course in which physical laws are linked directly to scientific theory through the use of mathematics and problem-solving. Topics include mechanics (motion, forces, energy

and momentum) and energy (heat, light, sound and electricity/magnetism).

CTP CHEMISTRY

CN: SC60

Grades 11 36 wks. (7 pds./wk) 1.0 credit
Average/Above Levels

NOTE: For College Tech Prep Students only

Prerequisite: Completion of or enrollment in CTP Algebra II or Algebra II and successful completion of Biology

This course is an activity-oriented approach to learning the fundamental principles and concepts of chemistry. Major concepts include properties and classification of matter, periodic properties, atomic and molecular structure, energy changes, chemical reactions, solutions, gas laws, and acids and bases. Laboratory techniques will be emphasized.

ACADEMIC CHEMISTRY

CN: SC30

Grades 11 36 wks. (7 pds./week) 1.0 credit
Average Level

Prerequisite: Successful completion of Algebra I and successful completion of Academic Biology or an "A" in General/Basic Biology.

This course introduces the student to basic chemistry principles and concepts. The topics will include matter, atomic structure, elements, the periodic table, compounds, and chemical reactions. The laboratory experiments included in this course are designed to coordinate with content material and to stress proper lab techniques.

HONORS CHEMISTRY

CN: SC20

Gifted (IHS Only): SC24

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grades 10 or 11 36 wks. (7 pds./week)
1.0 credit Honors Level

Prerequisite: Completion of or enrolled in CTP Algebra II/Algebra II. Successful completion of Honors Biology or an "A" in Average Biology or CTP Biology with teacher recommendation.

This course will emphasize the fundamental principles of the structure of atoms and molecules, chemical bonding, chemical reactions, periodicity, stoichiometry, nomenclature, gas laws, and acids and bases. Proper lab and data analysis techniques will be developed.

A.P. CHEMISTRY

CN: SC70
Gifted: SC77

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grades 11* or 12 36 wks. (10 pds./week) 1.0 credit
Advanced Placement

Prerequisite: Honors Chemistry and Teacher Recommendation

**Note: for 11th grade students - may only be taken concurrently with Physics (any level).*

This second year chemistry course centers around the curriculum published by the College Board. Advanced topics include atomic structure, bonding, gas laws, thermodynamics, solutions, electrochemistry, and equilibrium systems. Laboratory exercises stress laboratory techniques and applications of theory. This course is designed to prepare students for the advanced placement examination given in spring.

ECOLOGY and ENVIRONMENTAL SCIENCE

CN: SE30

Grades 12 36 wks. 1.0 credit
Basic Level

Prerequisite: Physical and Environmental Science

This general science course examines the relationship of principles and processes from biological, environmental, and physical science to the student's daily life. Students will study the biological and chemical nature of ecological systems with special emphasis on environmental damage associated with the human eco system. Topics such as soil and water ecology, pollution, population growth, and conservation of natural resources are included.

HONORS ENVIRONMENTAL SCIENCE

CN: SE50

Grades 11* or 12 36 wks. 1.0 credit
Honors Level

Prerequisite: Biology and Chemistry

**Note: For 11th grade students - may only be taken concurrently with Physics.*

This course will cover a variety of topics from biology, geology, chemistry, and geography as they relate to Environmental Science. Topics covered will be similar to the basic Ecology and Environmental Science course but at a higher level designed to meet the needs of students planning a career in an environmental-related field or college-bound students with an interest in Environmental

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grades 12 36 wks. (10 pds./week) 1.0 credit
Advanced Placement

Prerequisite: Honors Physics ("B" or higher), previously or currently enrolled in Calculus AB.

This course is a calculus based physics course designed to take an in depth look at the topic of mechanics, including kinematics, forces, energy, and momentum. This course is also designed to prepare students for the advanced placement examination given in the spring.

**PHYSICAL AND ENVIRONMENTAL
SCIENCE**

CN: SE40

Grades 11 36 wks. 1.0 credit
Basic Level

This course is designed to provide general, physical and environmental science concepts and skills to the basic level student. Science concepts explored during the first semester include selected chemistry, physics, earth, space, and weather topics. Second semester concepts discussed will include biological and environmental science topics. Student participation in cooperative learning projects; experimental design and lab work; problem-solving and test-taking skills will be stressed.

NOTES

ACADEMIC PHYSICS

CN: SP30

Grades 11 or 12 36 wks.(7 pds./week) 1.0 credit
Academic (Average) Level

Prerequisite: Successful completion or enrollment in Algebra II and successful completion of Chemistry.

This is a moderately paced course requiring the use of Algebra and Geometry. Average Physics is a laboratory course in which physical laws are linked directly to scientific theory through the use of mathematics and problem-solving. Topics include mechanics (motion, forces, energy, and momentum) and energy (heat, light, sound and electricity/magnetism).

HONORS PHYSICS

CN: SP20

Grades 11 or 12 36 wks. (7 pds./week) 1.0 credit
Honors Level

Prerequisite: 80% or better in Algebra II and "A" or "B" in Honors Chemistry

**This is a fast paced course with rigorous Algebra and Trigonometry.*

Honors Physics is a laboratory course in which physical laws are linked directly to scientific theory through the use of mathematics and problem solving. Topics include mechanics (motion, forces, energy, and momentum) and energy (heat, light, sound and electricity/magnetism.)

SOCIAL STUDIES

PROJECT REQUIREMENT:

All students will complete a project in their 10th grade Social Studies class as detailed on page four.

Social Studies.....3.5 credits required for graduation

World History 9 (Req., 1 credit)
World Cultures 10 (Req., 1 credit)
Amer. Survey 11 (Req., 0.5 credit)
Amer. Govnmnt. 11(Req., 0.5 credit)
Economics 12 (Required, 0.5 credit)

WORLD HISTORY 9

CN: HB10

Grade 9 36 wks. 1.0 credit Basic Level

Prerequisite: See Pg. 10, Admission to Basic Level Courses

Each student is required to take World History in ninth grade. This course will introduce the student to the development of civilization in the Ancient and Medieval periods of history, and it will cover the period of history from the beginning of civilization to the present time in the world. Additionally, the course includes a discussion of those men and women who have influenced the development of world history. The students will make use of the library to add depth and knowledge to the study of world history. This course is the least difficult of the

World History courses, and the instruction level is geared to help those students who have difficulty reading and comprehending historical information.

WORLD HISTORY 9, ACADEMIC

CN: HA10

Grade 9 36 wks. 1.0 credit Average Level

Each student is required to take World History in ninth grade. This course will introduce the student to the development of civilization in the Ancient and Medieval periods of history, and it will cover the period of history from the beginning of civilization to the present time in the world. Additionally, the course includes a discussion of those men and women who have influenced the development of world history. The student will make use of the library to add depth and knowledge to the study of world history. This course is the average level course, and the instruction is geared to help those students who do not experience any difficulty in reading and comprehending historical information.

WORLD HISTORY 9, HONORS

CN: HH10

Gifted: HH14

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grade 9 36 wks. 1.0 credit Honors Level

Each student is required to take World History in ninth grade. This course will introduce the student to the development of civilization in the Ancient and Medieval periods of history, and it will cover the period of history from the beginning of civilization to the present time in the world. Additionally, the course includes a discussion of those men and women who have influenced the development of world history. The student will make use of the library to add depth and knowledge to the study of world history. This course is the honors level course, and the instruction is geared to help the students who do not experience any difficulty in reading and comprehending historical information and who are able to research and write on past historical events. Modifications are available for gifted students.

WORLD CULTURES 10

CN: HB20

Grade 10 36 wks. 1.0 credit Basic Level

Prerequisite: See Pg. 10, Admission to Basic Level Courses

Each student is required to take World Cultures in tenth grade. This course will present the students with the history, geography, government, economy, leaders and culture of the major regions of the earth. It will cover such regions of the earth as Latin America, Africa, Middle East and Asia. Additionally, the course includes a discussion of those men and women who have influenced the development of world cultures. The students will make use of the library to add depth and knowledge to the study of world cultures. This course is the least difficult of the world cultures courses, and the instruction level is geared to help those students who have difficulty reading and comprehending historical and cultural information.

WORLD CULTURES 10, ACADEMIC CN: HA20

Grade 10 36 wks. 1.0 credit Average Level

Each student is required to take World Cultures in tenth grade. This course will present the students with the history, geography, government, economy, leaders and culture of the major regions of the earth. It will cover such regions of the earth as Latin America, Africa, Middle East and Asia. Additionally, the course includes a discussion of those men and women who have influenced the development of world cultures. The students will

make use of the library to add depth and knowledge to the study of world cultures. This course is the average level course, and the instruction is geared to help those students who do not experience any difficulty in reading and comprehending historical and cultural information.

WORLD CULTURES 10, HONORS

CN: HH20

Gifted: HH24

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grade 10 36 wks. 1.0 credit Honors Level

Each student is required to take World Cultures in tenth grade. This course will present the students with the history, geography, government, economy, leaders and culture of the major regions of the earth. It will cover such regions of the earth as Latin America, Africa, Middle East, and Asia. Additionally, the course includes a discussion of those men and women who have influenced the development of world cultures. The students will make use of the library to add depth and knowledge to the study of world cultures. This course is the honors level course, and the instruction is geared to help those students who do not experience any difficulty in reading and comprehending historical and cultural information and who are able to research and write on other cultures of the world. Modifications are available for gifted students.

SOCIOLOGY

CN: HS30

Grades 11 or 12 18 wks. 0.5 credit

This course is intended as a broad introduction to the field of sociology, the study of groups of people. The student is exposed to all facets of American cultural norms and values. The course instills in the student that "culture" is relative to a society or group. Particular emphasis is placed on social institutions and social problems.

AMERICAN SURVEY

CN: HA38 (Fall/Last Name A-K)

CN: HA39 (Spring/Last Name L-Z)

Grade 11 18 wks. 0.5 credit Basic Level

Prerequisite: See Pg. 10, Admission to Basic Level Courses

This course is intended to provide the student with a broad overview of American history from World War II to the present. This course uses a chronological and thematic approach in covering the major events and personalities that have shaped modern American society. The student will be responsible for reading assignments, exams, and class projects

as required by the instructor. The course is designed to help those students who have difficulty reading and comprehending historical information.

AMERICAN SURVEY, ACADEMIC

CN: HA36 (Fall/Last Name A-K)

CN: HA37 (Spring/Last Name L-Z)

Grade 11 18 wks. 0.5 credit
Average Level (Required Course)

Using a chronological and topical approach, this course will cover the major events and personalities in American history from World War II to the present. Homework and some library work will be required. The emphasis will be on the major trends leading to the events of the present day.

AMERICAN SURVEY - HONORS

CN: HH35 (Fall/Last Name A-K)

CN: HH36 (Spring/Last Name L-Z)

Grade 11 18 wks. 0.5 credit Honors Level

Prerequisite: Teacher Recommendation

This course provides an in-depth study of American culture from World War II to the present. Using a chronological approach, the major events and personalities of this century will be studied. This course is designed for students interested in American history as well as those going into post-high school education. A moderate amount of library work will be required.

A.P. AMERICAN HISTORY

CN: HH70

Gifted: HH77

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grade 11 36 wks. 1.0 AP credit
Advanced Placement Level

Prerequisite: Teacher recommendation

This course may be taken with teacher recommendation in place of the required American Survey and American Government courses.

This college-level course is designed to give students a foundation in the subject matter of American history and an understanding of major interpretive questions that have arisen among historians. Chronologically, it covers the time from the founding of the English colonies to the present. Students will make reports and write papers analogous to a college-level course. Students should note that this course involves extensive weekly reading assignments necessary for success.

Students who successfully complete this course are not required to take American Government and American Survey. This course is designed to prepare students for the Advanced Placement Examination given in the Spring.

A.P. EUROPEAN HISTORY

CN: HH80

Gifted: HH87

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grade 12 36 wks. 1.0 AP credit
Advanced Placement Level

Prerequisite: Teacher recommendation

This course may be taken with teacher recommendation in place of the required Economics course.

This course is designed to provide the student with an in-depth study of European history. Chronologically, it covers the years from the end of the Middle Ages to the present. One goal is the further understanding of the diplomatic, political, and economic structure of the modern world. A second is to develop an appreciation of the scientific and cultural contributions made by the creators of the western heritage; and a third, to promote the ability to see relationships between political, economic, and intellectual history. Students will participate in debates and group discussions, as well as reviewing two books during the year. Students who successfully complete this course are not required to take Economics. This course is designed to prepare students for the Advanced Placement Examination given in the Spring.

AMERICAN GOVERNMENT

CN: HG38 (Fall/Last Name L-Z)

CN: HG39 (Spring/Last Name A-K)

Grade 11 18 wks. 0.5 credit Basic Level

Prerequisite: See Pg. 10, Admission to Basic Level Courses

Students will become more informed citizens through this course. Students will learn about the history of our government, what it means to be a citizen, the three branches of government, voting, and political parties. Students will also use the computer lab and library to research careers.

**AMERICAN GOVERNMENT,
ACADEMIC**

CN: HG36 (Fall/Last Name L-Z)
CN: HG37 (Spring/Last Name A-K)
Grade 11 18 wks. Required 0.5 credit
Average Level

To improve citizenship perspectives, this course teaches the transition from colonial to constitutional government, principles of American government, the American political system, presidency/congress/judiciary, political parties, and the voter in modern society. Students will use the library to gain additional understanding of American government.

AMERICAN GOVERNMENT - HONORS

CN: HG34 (Fall/Last Name L-Z)
CN: HG35 (Spring/Last Name A-K)
Grade 11 18 wks. Required 0.5 credit
Honors Level

Prerequisite: Teacher Recommendation

This course emphasizes major high level political concepts. The organization and conduct of this course is designed to help the average or above-average student who desires post-high school education. This course analyzes constitutional rights and privileges, the federal system, measuring the American presidency, legislative and judicial functions, and voting and political parties. Considerable library work will be required.

A.P. COMPARATIVE GOVERNMENT

CN: HG80
Grade 12 18 wks. 0.5 AP Credit Elective
Advanced Placement Level

Prerequisite: Teacher recommendation

This course may be taken with teacher recommendation in place of the required Economics Course.

This college-level course is designed to provide students with an understanding of the government and political systems existent in Great Britain, Iran, China, Russia, Nigeria, and Mexico. Topics discussed in the course will include the different sources of power found in the countries listed above, how citizens participate in the political life of

ECONOMICS - HONORS

CN: HE45
Grade 12 18 wks. 0.5 credit Honors Level

This course emphasizes major high-level economic concepts. The organization and conduct of this

these countries, how political changes are made, and different types of regimes found around the world. Students will also be exposed to various issues dealing with current foreign and domestic policy situations. This course will be of particular interest to students who wish to start learning about these topics. Students will use the library to complete writing assignments and will be expected to participate in organized debates, complete reading assignments, and engage in critical thinking activities throughout the course of the semester. Students who successfully complete this course are not required to take Economics. This course is designed to prepare students for the Advanced Placement Examination given in the Spring.

ECONOMICS

CN: HE48
Grade 12 18 wks. 0.5 credit Basic Level

Prerequisite: See Pg. 10, Admission to Basic Level Courses

This course is designed to promote and develop consumer education and skills which all citizens need in order to function more efficiently in a market society. Emphasis will be placed on everyday economic choices/decisions most citizens face, such as personal budgets, sources of income (i.e., vocational choices, investment/savings), and credit vehicles and the use and maintenance of credit/debit accounts. Additionally, the student will explore consumer rights issues and their role as consumers within the circular flow of economic activity.

ECONOMICS, ACADEMIC

CN: HE47
Grade 12 18 wks. 0.5 credit Average Level

This course is designed to teach economic concepts, skills, and ideas which the average citizen needs in order to function efficiently in the market place. Emphasis is on the functions of production, consumption, economic institutions, the workers and productivity, and major economic agencies. Also emphasized is the basic background for everyday economic decisions most citizens must choose, such as household budgets, personal investments, insurance options, etc. Some library work will be required.

course is designed to help the student of average or above-average ability who desires post-high school education. This course analyzes concepts and ideas such as economic scarcity, resource allocation, free market power and price determination, causes, consequences, and cures

for inflation, as well as economic controls and productivity. Considerable library work will be required.

PSYCHOLOGY

CN: HP30

Grades 11 or 12 18 wks. 0.5 credit

The purpose of this course is to introduce the senior high school student to the study of human behavior and personality from an academic perspective. Audio-visual material, group activities, role-playing, and class discussion are used to expose the student to the history, development, and schools of psychology.

LAW AND ORDER

CN: HJ30

Grades 11 or 12 18 wks. 0.5 credit

The purpose of this course is to study the basic concepts of the American legal system. Students will learn of their constitutional rights and discuss landmark decisions of the Supreme Court. Speakers, field trips, and video material are used to increase knowledge of our legal system. Students will use the library to conduct research on important court cases in American history.

IHS SOCIAL STUDIES

MAKE-UP, PARTS I and II

CN: HM21 (Fall)

CN: HM22 (Spring)

Grades 11 or 12 18 wks. each 0.5 credit
Basic/Average Levels

Prerequisite: Student must be in need of an IHS Social Studies credit (semester)

This course serves as a make-up course for students in need of ninth and/or tenth grade social studies credits. This course will emphasize current national and international events through teacher-supplied resources. Along with the study of current events, students will be guided through an in-depth examination of two geographic regions. The instruction will aim to demonstrate the interconnectedness of the modern world and provide students with an understanding of pressing global and national issues.

NOTES

WORLD LANGUAGE

For all first-year World Language courses, students should meet the following criteria:

1) Scoring at or above the 50th percentile on the local norm for the Reading Comprehension on the Stanford Achievement Test (TASK).

2) Scoring at or above the 50th percentile on the local norm for the spelling on the Stanford Achievement Test (TASK).

Students scoring below these criteria will be "at risk" of failure in any first-year World Language course.

FRENCH I

CN: LF10

Grades 9 or 10 or 11 or 12 36 wks. 1.0 credit
Average/Above Levels

This course develops communication skills in French by using basic phrases and familiarization

with pronunciation. Students will participate in simple conversations. Reading and writing of the French language are introduced. Culture of the French-speaking world is illustrated through songs, films, games, and other audio-visual materials.

FRENCH II

CN: LF20

Grades 9 or 10 or 11 or 12 36 wks. 1.0 credit
Average/Above Levels

Prerequisite: French I

This course continues the development of speaking as a tool to communication in the vast French-speaking world. Students will continue to learn to read and write. Cultural aspects will be included as an important part of the course. Songs, films, games, and other audio-visual materials will be used to promote learning.

with a recognition of the significant contributions of the German people to Western civilization.

GERMAN II

CN: LG20

Grades 9 or 10 or 11 or 12 36 wks. 1.0 credit
Average/Above Levels

Prerequisite: German I

The class continues the grammar begun in German I with more intensive reading and writing emphasized. The culture is further examined through music, stories, and films.

GERMAN III

CN: LG30

Grades 10 or 11 or 12 36 wks. 1.0 credit
Honors Level

Prerequisite: German II

This course is designed to continue the skills of listening, speaking, reading, and writing in the German language. The main goal of German III is communication in the target language.

GERMAN IV

CN: LG40

Grades 11 or 12 36 wks. 1.0 credit
Honors Level

Prerequisite: German III

Individual needs of students will be pursued in this course through the use of the basic skills previously developed, and more phrases will be used for communication.

A.P. GERMAN V

CN: LG50

Gifted: LG70

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grade 12 36 wks. 1.0 credit
Advanced Placement Level

Prerequisite: German IV & Teacher Recommendation

Students will continue to develop their language skills as communication in German is emphasized. The course will also review previously learned grammar and structures, and time will be given to the reading of texts and literature in the target

FRENCH III

CN: LF30

Grades 10 or 11 or 12 36 wks. 1.0 credit
Honors Level

Prerequisite: French II

This course will develop more proficiency in understanding, speaking, reading, and writing. Films, authentic audio and visual recordings, music of the French-speaking world, games, and other audio-visual materials are some of the tools used to promote learning.

FRENCH IV

CN: LF40

Grades 11 or 12 36 wks. 1.0 credit
Honors Level

Prerequisite: French III

This course will further develop proficiency in language skills with an emphasis on communication and can help open the door to careers in world languages. Films, authentic audio and video recordings, music, and games are all included in the learning process.

A.P. FRENCH V

CN: LF50

Gifted: LF70

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grade 12 36 wks. 1.0 credit Advanced Placement

Prerequisite: French IV & Teacher Recommendation

This course will emphasize the in-depth study of grammar, selected readings, and verbal proficiency. Many cultural activities will be included. French language films, authentic audio and video recordings, songs from the French-speaking world are an important part of the process toward bilingualism. This course will also prepare students for the advanced placement examination given in the spring.

GERMAN I

CN: LG10

Grades 9 or 10 or 11 or 12 36 wks. 1.0 credit
Average/Above Levels

This course focuses on the German language through conversation, grammar, and vocabulary,

language. This course is designed to prepare students for the advanced placement examination given in the Spring.

JAPANESE I

CN: LJ10

Grades 9, 10, 11 or 12 36 wks. 1.0 credit
Average/Above Levels

This course includes basic vocabulary and sentence structure, including greetings and descriptions. Students learn Hiragana and Katakana alphabets. Students will also gain exposure to Japanese culture.

JAPANESE II

CN: LJ20

Grades 10, 11 or 12 36 wks. 1.0 credit
Average/Above Levels

Prerequisite: Japanese I

The student continues to develop the skills of understanding, speaking, reading, and writing Japanese. The Katagana writing system will be reinforced. In addition, the student will be exposed to Kanji. This course will also emphasize vocabulary, grammar, history, geography, culture, and customs.

JAPANESE III

CN: LJ30

Grades 11 or 12 36 wks. 1.0 credit Honors Level

Prerequisite: Japanese II

Students will continue to expand their knowledge of the Japanese culture, customs, and basic language skills to instill confidence in their ability to communicate in Japanese in everyday situations. This should provide a solid basis for practical communications, as well as providing the ability for reading and writing in Hirigana, Katakana, and Kanji.

JAPANESE IV

CN: LJ40

Grade 12 36 wks. 1.0 credit Honors Level

Prerequisite: Japanese III

Students will begin a more advanced study of topics introduced in Japanese III (vocabulary, grammar, and culture), with the goal of communication in the

language. In addition, more of the Kanji writings system will be introduced.

LATIN I

CN: LL10

Grades 9, 10, 11 or 12 36 wks. 1.0 credit
Average/Above Levels

This course emphasizes Latin vocabulary and grammar in a story-based lesson format. Students will learn to use Latin as a basis for vocabulary building and enrichment in English. Roman culture and mythology are also covered in detail.

LATIN II

CN: LL20

Grades 10, 11 or 12 36 wks. 1.0 credit
Average/Above Levels

Prerequisite: Latin I

Students have an intensive review of Latin I grammar and vocabulary. Students also learn about life in Rome, becoming familiar with ancient structures, housing, education, dining, customs, and forms of entertainment available to the ancient Romans. The class continues to emphasize English derivatives from Latin roots and parallels between Latin and English grammar and culture.

LATIN III

CN: LL30

Grades 11 or 12 36 wks. 1.0 credit Honors Level

Prerequisite: Latin II

Students in Latin III will continue studying vocabulary and grammar on a more intense level. Students should now be able to write sentences in Latin and translate more difficult stories outside of the text. Supplemental readings will be used to study the Latin language. Such authors as Pliny, Vergil, and Horace will be examined in class. Outside and in-class readings are required. Grammar and vocabulary will be particularly emphasized through writings and translations.

LATIN IV

CN: LL40

Grade 12 36 wks. 1.0 credit Honors Level

Prerequisite: Latin III

Emphasis is placed on student progress in reading, understanding, analyzing, and interpreting Latin in the original. Students will translate prose and poetry selections to demonstrate mastery of grammatical structures and vocabulary. Stylistic analysis of literary techniques and poetic meters is an integral part of this course. The study of the cultural, social, and political context of the literature

is examined in detail. Students will develop an advanced English vocabulary through the study of classical roots both in Latin and Greek.

SPANISH I

CN: LS10

Grades 9 or 10 or 11 or 12 36 wks. 1.0 credit
Average/Above Levels

Proficiency through meaningful communicative contexts will be developed in this course. Strategies for developing listening, reading, speaking, and writing skills plus comparing cultures are included in each chapter. Personalized activities will lead students to relate Spanish to their own lives.

SPANISH II

CN: LS20

Grades 9 or 10 or 11 or 12 36 wks. 1.0 credit
Average/Above Levels

Prerequisite: Spanish I

This offers the opportunity to further develop listening, speaking, reading, and writing skills which will permit the student to become familiar with our Spanish-speaking neighbors. Inclusion of various cultural topics encourage the formation of positive attitudes toward the language and its people.

SPANISH III

CN: LS30

Grades 10 or 11 or 12 36 wks. 1.0 credit
Honors Level

Prerequisite: Spanish II

This course will enable the student to express himself/herself in daily situations using the Spanish language and advanced grammar skills. The student is introduced to more in-depth aspects of the Spanish-speaking world.

SPANISH IV

CN: LS40

Grades 11 or 12 36 wks. 1.0 credit Honors Level

Prerequisite: Spanish III

Students are introduced to a variety of both classical and popular Spanish and Latin-American literature. A continuing study of culture and more advanced grammar with emphasis on in-depth speaking, writing, and discussion skills will be stressed.

A.P. Spanish V

CN: LS50

Gifted: LS70

(Gifted enrollment is limited to students in the Gifted Program and must be approved by Gifted Coordinator/GIEP)

Grade 12 36 wks. 1.0 credit
Advanced Placement Level

Prerequisite: Spanish IV & Teacher Recommendation

Students will continue their study of Spanish and Latin-American literature. Further emphasis will be given to speaking and writing skills, as well as advanced grammar and culture. This course is designed to prepare students for the advanced placement examination given in the spring.

NOTES

BUTLER COUNTY AREA VOCATIONAL-TECHNICAL SCHOOL

Butler County Area Vocational-Technical School offers programming in technical, trade, service, mechanical, and production occupations to eligible high school students residing in the Butler Area School District. Students who complete 10th or 11th grade may apply for admission to any one of the 15 different programs by submitting the *BCAVTS Application for Admission* to their academic guidance counselor. **Please see your guidance counselor for complete admission procedure details.** Accepted students will spend a two-hour

portion of their day involved in hands-on activities at BCAVTS and the remainder of the day completing academic requirements at Butler Senior High School.

The desire to learn, a cooperative work attitude, and the ability to profit from technical instruction are qualities needed to be a successful student in any of the programs. As an investment for the future work life of the student, the technical course work will prepare students of all ability levels to enter an occupation, a post-secondary school, or the military. Students considering enrollment at BCAVTS need to consider a number of personal factors including: career interests, academic abilities, social maturity, and specific career aptitudes.

Articulation Agreements have been established with colleges and career schools throughout the region. Qualifying students have the opportunity to receive college credits at specific institutions for learning achievements accomplished at BCAVTS. The number of credits awarded and specific requirements vary for each institution. Call the BCAVTS Guidance Office for the latest articulation information.

Numerous **Certification** opportunities exist for BCAVTS students. A certification is a business and/or industry documentation verifying skills and knowledge in a specific area of study. These certifications may become increasingly important for advancement within a career area. NOCTI certification is granted to all students who pass a written and practical examination of skills in his/her area of study. Other certifications currently offered at BCAVTS include: **Air Conditioning/Heating/Electrical** (American Refrigeration Institute ICE and EPA Refrigerant Recovery); **Automotive Technology** (NATEF, PA State Inspection); **Building Construction** (Fork Lift Operator); **Heavy Equipment Repair** (Fork Lift Operator); **Health Assistant** (AED, CPR, First Aid, and Home Health Aide); **Cosmetology** (PA Cosmetology and Nail Technician); **Computer Networking & Telecommunications** (A+); **Culinary Arts** (ServSafe, Food Production, Customer Service, Nutrition, CPR); **Machine Technology** (NIMS); **Protective Services** (EMT, Essentials of Firefighting, Incident Command System, Hazardous Materials, High Angle Rescue); and others. Certifications are subject to change.

Qualifying second and third year students may wish to consider participating in the **Cooperative Education** program. The program can provide a student the opportunity to be employed within his/her area of vocational-technical study and earn wages while under the supervision of the BCAVTS Cooperative Education Coordinator. All BCAVTS courses are eligible for participation, but students need to meet specific requirements, apply, and be accepted into the program. Cooperative Education guidelines established by the PA Department of Education and approved by local area school districts will be followed.

BCAVTS is staffed with a guidance counselor who works cooperatively with Butler Intermediate and Senior High Schools guidance counselors in order to meet the needs of our students. Questions about specific programs of study at BCAVTS can be referred to the Butler Intermediate or Senior High Schools guidance counselors or to the Guidance Office at BCAVTS (724) 282-0735.

AIR CONDITIONING/ HEATING/ELECTRICAL

CN: VB40

Recommended Academic Courses:

Algebra I, II; Geometry; Precalculus;

Chemistry (with lab); Physics; Technology Education

Grades 11 or 12 36 wks. 3.0 credit

A student in the Air Conditioning/Heating/ Electrical program will be introduced to careers centering on the installation, maintenance, and repair of heating, ventilation, and air conditioning equipment. The student will also gain enough residential and commercial electrical knowledge to choose entrance to electrical/electrical-skilled careers. Skills learned in the classroom will include working with compressors, relays, and thermostats; recovering and recycling refrigerants; learning related plumbing and electrical skills; fabricating

sheet metal; following electrical and building codes; and installing, servicing, and maintaining residential or commercial heating, refrigeration, ventilation, and air conditioning systems.

AB/COLLISION REPAIR

CN: VC40

Recommended Academic Courses:

Algebra I, II, Geometry

Chemistry; Technology Education

Grades 11 or 12 36 wks. 3.0 credit

A student in the AB/Collision Repair program will be introduced to careers centering on the replacement and repair of automobile and light truck bodies and body parts. New technologies that include a touch-mix computerized paint mixing system, resistance welder, aluminum welder, paint gun cleaner, paint

recycling system, fresh air breathing system for the paint booth, hydraulic lift, and a cost estimating area will be used daily by students. Instruction utilizes the I-CAR curriculum presented through 50% theory and 50% application/practical skills with assessment of both portions reflected in each student's grade.

AUTOMOTIVE TECHNOLOGY

Jrs. CN: VE40

Srs. CN: VD40

Recommended Academic Courses:

Algebra I, II; Geometry;

Chemistry; Technology Education

Grades 11 or 12 36 wks. 3.0 credit

A student in the Automotive Technology program will be introduced to the highly technical careers centering on the repair of automobiles and light trucks. Rigorous evaluation by the National Automotive Technicians Education Foundation (NATEF) and the National Institute for Automotive Service Excellence (ASE) has resulted in program certification that assures employers standards of excellence in the areas of instruction, facilities, and equipment are met by BCAVTS. Skill areas include brakes and the electrical/electronic systems for the first year and engine performance, suspension, and steering for the second year of the program.

BUILDING CONSTRUCTION

CN: VF40

Recommended Academic Courses:

Algebra I, II; Geometry;

Chemistry; Technology Education

Grades 11 or 12 36 wks. 3.0 credit

A student in the Building Construction program will be introduced to careers in the commercial and residential building industry. Each student will receive training in carpentry, electrical, masonry, plumbing, and touch on welding and fabrication skills. The students in Building Construction may participate in the annual construction of a complete home.

CARPENTRY

CN: VG40

Recommended Academic Courses:

Algebra I, II; Geometry; Chemistry;

Technology Education; Computer Applications

Grades 11 or 12 36 wks. 3.0 credit

A student in the Carpentry program will be introduced to careers for general carpenters, wood

workers, and fine cabinetmakers. Classroom learning will include measuring; use of power tools; use of hand tools; types of fasteners; types of adhesives; rough carpentry skills; cabinetmaking skills; blueprint reading skills; programming/operation of the CNC (computerized numerical control) lathe, router, lasers, and moving gantry router. Practical application includes fine cabinetmaking and working on construction of the modular home.

COMMERCIAL ART

CN: VX40

Recommended Academic Courses:

Algebra I, II; Geometry;

Chemistry (with lab); Art; Computer Applications

Grades 11 or 12 36 wks. 3.0 credit

A student in the Commercial Art program will utilize design concepts that lead to creating a visual solution for a client. By learning and applying principles of color theory and color balance and through the use of visual media programs such as Adobe Illustrator, Adobe InDesign, and Adobe Photoshop, the student will be equipped to graphically create and design an artistic rendering of the client's idea. Other essential elements of the curriculum include: fashion design, animation, air brushing, industrial design, computer illustration, and electronic photo manipulation.

COMPUTER-AIDED DRAFTING (CAD)

CN: VK40

Recommended Academic Courses:

Algebra I, II; Geometry; Chemistry; Physics;

Computer Applications; Technology Education

Grades 11 or 12 36 wks. 3.0 credit

A student in the CAD program will be introduced to the language of engineering using computer design programs such as AutoCAD, Inventor, Architectural DESKTOP, 3D Studio VIZ, and Mastercam. Student drawings and designs will be fed into lasers and rapid-prototype machines to form models and full size parts. Animation and illustration techniques will enhance the further development and presentation of designs.

COMPUTER NETWORKING

and TELECOMMUNICATIONS

CN: VL40

Recommended Academic Courses:

Algebra I, II; Geometry; Precalculus;

Chemistry (with lab); Physics;

Computer Applications; Technology Education

Grades 11 or 12 36 wks. 3.0 credit

A student in the Computer Networking and Telecommunications program will be introduced to the creative technologies related to supporting and networking computer systems in both theory and direct application. The fundamentals of media, topologies, protocols, standards, network implementation, and network support will be presented. Problem solving and analytical skill development are taught and supported within the classroom structure.

COSMETOLOGY

CN: VJ40

Prerequisite: Following acceptance at the Butler Co.

A.V.T.S., the student must complete enrollment procedures as required by the PA State Board of Cosmetology and purchase uniforms and equipment as prescribed by the school.

Recommended Academic Courses:

Algebra I, II; Geometry;

Chemistry (with lab); Computer Applications

Grades 11 or 12 36 wks. 3.0 credit

A student in the Cosmetology program will be introduced to the skills surrounding careers in the beauty industry. Competence in hair care, hair cutting, skin care, and nail care are obtained through learning techniques and practice on mannequins. Advanced practice on classmates and then clients will take place in the school's salon. All hours earned during daily class, evening class, and summer school are applied to the 1250 hours of instruction needed for the PA State Board of Cosmetology State Board Certification Test. State licensing can be pursued once the required number of hours is in place.

CULINARY ARTS

Jrs. CN: VH40

Srs. CN: VN40

Recommended Academic Courses:

Algebra I, II; Geometry;
Chemistry (with lab); Foods; Computer Applications

Grades 11 or 12 36 wks. 3.0 credit

A student in the Culinary Arts program will be introduced to skills and career options within the food preparation industry. Measuring; meal planning; menu development; entree, vegetable, salad, grill-side, and dessert preparation; equipment maintenance; sanitary food handling; food preparation techniques; and inventory are vital culinary skills presented and practiced in the classroom and kitchen environment. Students will rotate throughout the kitchen and be actively involved in the daily operation of the school's public restaurant.

GRAPHIC ARTS

CN: VP40

Recommended Academic Courses:

Algebra I, II; Geometry;

Chemistry (with lab); Art;

Technology Education; Computer Applications

Grades 11 or 12 36 wks. 3.0 credit

A student in the Graphic Arts program will be introduced to the great variety of production techniques used in a commercial or industrial setting. Learning the production fundamentals of the graphics industry will include extensive utilization of computer design programs; design and production of silk-screens; design, production and use of laser etching and cutting tools, vinyl graphic design and production; digital portfolio photography; individual portfolio design, production, and review; and the use of binding, stitching, and cutting tools used in printing production.

HEALTH ASSISTANT

LEVEL I: ALL NEW STUDENTS

USE THESE NUMBERS:

Jrs. CN: VM40

LEVEL II: RETURNING STUDENTS

USE THESE NUMBERS:

Srs. CN: VR40

Recommended Academic Courses:

Algebra I, II; Geometry;

Chemistry (with Lab); Computer Applications

Grades 11 or 12 36 wks. 3.0 credit

A student in the Health Assistant program will be introduced to the field of health care with an emphasis on direct patient care. Instructional areas will include: anatomy; physiology; medical terminology; infection control; emergency procedures; patient care; and technological advancements in patient care. The expanded overview of the health care field allows students to explore, refine, and choose an area of specialization in health care after field trips, job shadowing experiences, and clinical rotations are taken.

HEAVY EQUIPMENT

CN: VS40

Recommended Academic Courses:

Algebra I, II; Geometry; Physics,

Technology Education; Computer Applications

Grades 11 or 12 36 wks. 3.0 credit

A student in the Heavy Equipment program will be introduced to maintenance and repair of gasoline or diesel powered machinery. Extensive study of engines, transmissions, drivelines, differentials, steering and brakes, and hydraulic and electrical systems is included in this curriculum. Also included are electronic control systems such as computerized engines, ABS/ATC, VORAD, and auto shift transmissions. Lecture, hands-on experiences, job shadowing, internships, cooperative education, scholarship opportunities, and job placements are foundation of this class.

MACHINE TECHNOLOGY

CN: VT40

Recommended Academic Courses:

Algebra I, II; Geometry; Chemistry (with lab);

Technology Education; Computer Applications

Grades 11 or 12 36 wks. 3.0 credit

A student in the Machine Technology program will be introduced to the skills used in the precision metalworking industry. Students will be instructed on how to develop a process plan; how to produce and/or repair parts; how parts fit and work together; how to use a variety of metal working equipment; how to program and produce products on the computer controlled (CNC) machines; and how to make accurate quality control checks. Skills obtained in this area are highly transferable to many production, manufacturing, and mechanical

engineering careers.

PROTECTIVE SERVICES

CN: VU40

Recommended Academic Courses:

Algebra I, II; Geometry;

Chemistry (with lab); Computer Applications

Grades 11 or 12 36 wks. 3.0 credit

A student in the Protective Services program will acquire knowledge and skills from the public safety areas of fire fighting; emergency medical services; vehicle, rope, and confined space rescue, as well as law enforcement. Students can expect to receive instruction; participate in practical applications and situational learning experiences; and prepare to test for national, state, and local certifications. Through exploration and physical practice of skills presented within the curriculum, students will be able to refine personal career opportunities and choose an area of specialization in public safety.

WELDING

CN: VW40

Recommended Academic Courses:

Algebra I, II; Geometry; Chemistry (with lab); Physics;

Technology Education; Computer Applications

Grades 11 or 12 36 wks 3.0 credit

A student in the Welding program will be introduced to the application of technical knowledge and skills in gas, arc, shielded and non-shielded metal arc, brazing, flame cutting and plastic welding. Students learn safety practices and types and use of electrodes and welding rods; properties of metals; blueprint reading; electrical principals, welding symbols and mechanical drawing; use of equipment for testing welds by ultrasonic methods and destruction and harness testing; use of manuals and specification charts; use of portable grinders and chemical baths for surface cleaning; positioning and clamping; and welding standards established by the American Welding Society,

Butler County Area Vocational-Technical School Articulation Agreements Approved by the Joint Operating Committee	
<i>INSTITUTION</i>	<i>BCAVTS PROGRAM</i>
The Art Institute of Pittsburgh 420 Boulevard of the Allies Pittsburgh, PA 15219-1328 1-877-532-8941	<ul style="list-style-type: none"> • Computer Aided Drafting • Computer Networking/Telecommunications • Culinary Arts • Graphic Arts • Machine Technology
Butler County Community College P.O. Box 1203 Butler, PA 16001 724-287-8711	<ul style="list-style-type: none"> • Computer Aided Drafting • Culinary Arts • Graphic Arts • HVAC Associate in Applied Science • Machine Technology • Protective Services • NOCTI: - 6 technology elective credits will be awarded for the successful completion of NOCTI skill and written exams
Douglas Education Center 130 Seventh Street Monessen, PA 15062 724-684-3684 or 1-800-413-6013	<ul style="list-style-type: none"> ↪ Cosmetology
Empire Beauty Academy 2394 Mountainview Dr. West Mifflin, PA 15122 1-412-653-2870 www.empire.edu	<ul style="list-style-type: none"> ↪ Cosmetology
Erie Institute of Technology 940 Millcreek Mall Erie, PA 16565 1-814-868-9900	<ul style="list-style-type: none"> ↪ Computer Networking/Telecommunications
ITT Technical Institute Ten Parkway Center Pittsburgh, PA 15220-3801 1-800-353-8324	<ul style="list-style-type: none"> • Computer Networking/Telecommunications
Oakbridge Academy of Arts 1250 Greensburg Rd. Lower Burrell, PA 15068	<ul style="list-style-type: none"> • Graphic Arts

Pittsburgh Technical Institute 1111 McKee Rd. Oakdale, PA 15071 1-412-809-5100	<ul style="list-style-type: none"> • Computer Aided Drafting ▾ Commercial Art • Computer Networking/Telecommunications ▾ Graphic Arts
Triangle Tech, Inc 1940 Perrysville Ave. Pittsburgh, PA 15214-9901 1-412-359-1000	<ul style="list-style-type: none"> ▾ Carpentry ▾ Construction Technology
Universal Technical Institute 601 Regency Drive Glendale, Heights, IL 60139	<ul style="list-style-type: none"> ▾ Automotive Technology ▾ Collision Repair
University of Northwestern Ohio 1441 N. Cable Road Lima, OH 45805 419-227-3141	<ul style="list-style-type: none"> ▾ Automotive Technology ▾ Air Conditioning/Heating

INFORMAL AGREEMENTS

Institution	Butler County AVTS Program
Community College of Allegheny County 808 Ridge Ave. Pittsburgh, PA 15212 412-237-2511	<ul style="list-style-type: none"> ▾ Air Conditioning
Pennsylvania College of Technology One College Drive Williamsport, PA 17701 1-800-367-9222	<ul style="list-style-type: none"> ▾ Air Conditioning/Heating ▾ Carpentry ▾ Heavy Equipment Repair

NCAA FRESHMAN ATHLETIC ELIGIBILITY STANDARDS

For students entering any college or university, including Division I or Division II collegiate institutions, on or after August 1, 2008, your NCAA initial-eligibility will be evaluated under the following new rules.

- A. The Division I initial-eligibility index, or sliding scale, will only take into account the incoming students' core GPA, combined verbal and math SAT scores, and the sum ACT score.
- B. There is no sliding scale for Division II eligibility. The minimum core grade-point average is 2.000. The minimum SAT score is 820 (Verbal and Math sections only) and the minimum ACT sum score is 68.
- C. For students entering any Division I college or university on or after August 1, 2008, your NCAA initial-eligibility will be evaluated under the 16 core-course rule. The 16 core-course rule increases the number of core-courses from 14 to 16 for Division I only. Students must complete three years of mathematics (Algebra I or higher), and four years of additional core-courses. The additional core-courses may be in any area: English, mathematics, natural/physical science, social science, foreign language or non-doctrinal religion/philosophy. Earn a minimum required grade-point average in your core-courses and earn a combined SAT or ACT sum score that matches your core-course grade-point average and test score sliding scale (for example, a 2.400 core-course grade-point average needs an 860 SAT).
- D. At the earliest, a student should apply for initial-eligibility the summer of their junior year, but no later than the beginning of the spring semester of their senior year.
- E. **For further information concerning eligibility, the Butler Area School District Core-Course list and other NCAA initial-eligibility index, or sliding scale, please contact your high school guidance counselor, or the Butler Athletic Department.**
- F. Division III does not use the Eligibility Center. Contact your Division III college or university regarding its policies on admission, financial aid, practice and competition.

PLEASE NOTE: For students entering college on or after August 1, 2008, **computer-science** courses may only be used for initial-eligibility purposes if the course receives graduation credit in mathematics or natural/physical science and is listed as such on the high school's list of NCAA-approved core-courses.

Important Telephone Numbers:

Clearinghouse Customer Service
NCAA Eligibility Center

877-262-1492
317-917-6222

Online Registration: www.eligibilitycenter.org

QUESTIONS/NOTES