

Cochranton Jr/Sr High School

Registration Planner *for College and Career Readiness*



2022-23
School Year

This **REGISTRATION PLANNER** is published yearly by the Guidance Department. The following information is designed to provide course descriptions, graduation requirements, post-secondary data, and other academic information that is influenced by a student's course selections throughout his/her time at Cochran Junior/Senior High School.

We would like to take this opportunity to stress the importance of proper course selection in preparation to achieve life's goals. Students are asked to select courses for the following school year with the following message in mind: *The best policy is to select courses that are challenging, but within one's capabilities. Students who do not take the appropriate courses through high school could find post-secondary training more challenging, college admissions more difficult, and job advancement more limited.*

Things to consider when making course selections:

- ✓ Individual educational goals and career interests
- ✓ Past performance in courses
- ✓ Course requirements and prerequisites
- ✓ Teacher/Guidance recommendations
- ✓ PSSA & Keystones scores/results
- ✓ District graduation requirements
- ✓ Post-secondary schooling and/or career requirements

We understand that the information in this handbook may not address all individuals' situations, questions, or concerns. If you have question regarding the scheduling process, please make an appointment to speak with a Guidance Counselor.

We hope our handbook will help enlighten both students and parents on what Cochran Junior-Senior High School has to offer.

School Profile

Cochranton Jr/Sr High School

105 Second Street
Cochranton, PA 16314

School Code: 390745

Telephone: 814.425.7421 **Fax:** 814.425.2533

Community Description:

Cochranton is located in northwest Pennsylvania just off Route 322 in the southeast corner of Crawford County. This community is nine miles south of Meadville, and fifteen miles north of Franklin. Interstate 79 is eight miles west and provides easy access to Erie and Pittsburgh. It is a rural community but, has several small industries that employ many area residents.

School Description:

Cochranton Jr/Sr High School is part of the Crawford Central School District.

There are approximately 400 students enrolled in grades 7 through 12. The professional staff includes 34 classroom teachers, 2 counselors, 2 administrators, 1 librarian, and 2 school nurses (shared between CHS and Cochranton Elementary).

Courses are offered in the Advanced Placement (AP), Honors, Academic, Vocational-Technical, and Learning Support curriculums. All Learning Support classes are integrated into regular classrooms. The number of credits required to graduate is 25.7. An honor roll is published at the end of each marking period. The school day consists of eight periods that are 40 - 60 minutes long, and most classes meet five days per week. There are three closed lunch sessions (30 minutes each) that are determined by a student's regular 5th period class.

Along with its fine academic program, Cochranton Jr/Sr High School also has numerous sports and other extra-curricular activities that are available to students throughout the year. In addition, our marching band has won many top honors in field competition over the past several years, and our robotics program has competed at the national level.

School Colors:

Red and White

School Mascot:

Cardinal



Faculty and Staff

Administrators:

Donald Wigton (*Principal*), Scott McCurdy (*Assistant Principal*)

Athletic Director:

Scott McCurdy

Secretaries:

Terry Bernarding, Anita McCurdy

Health Services:

Lisa Ramirez, Linda Vogan

Teachers:

Art: Lisa McFerren

Business/Computers: Gail Kosienski, Teri Rose

English/Language Arts: Elizabeth Andracki, Ryan Ball, Hunter Chaffee, Heather Onderko, Christie Sutton

Family & Consumer Science: Kelly Gunn

Foreign Languages: Heather Paris (*French*), Ronald Klepadlo (*Spanish*)

Guidance Counselors: Simoan Ray (*Senior High*), Adam Volkstadt (*Junior High*)

Health & Physical Education: Kelli Leonard, Brian Olson

Library: Rob Cierniakoski

Learning Support: Michelle Heim (Grades 7 & 8), Dara Kuhn (Grades 9 & 10), Susan Baker (Grades 11 & 12)

Math: Zachary Bazan, Jarod Morrison, Jenna Nelson, John Svirbly, April Terrill

Music: Carl Miller, Rachel Miller

Science: Zachary Bazan, Philip Canfield, Tyler Chrispen, Jarod Morrison, Kim Wright

Social Studies: Jan Carkin, Don Erdley, Adam Volkstadt, David Zamperini

Technical Education: Christopher Yost

Support Staff:

Building Manager:

Mark McGuire

Cafeteria:

Margaret Alsdorf, Marilyn Babbitt, Kathy Custead, Cindy Dailey, Florence Staudt, Susan Wolfe

Custodians:

Steven Hart, Mark Hollabaugh, Denise Reese, Chris Tavormina

Student Aides:

Michelle Derugen-Toomey, Diane Walls, Terri Wentworth

Philosophy and Goals of Education

It is our belief that all students can learn and are entitled to the best educational opportunities we can provide them based on their specific needs, abilities, and interests. We also believe that students should be instilled with an appreciation of the fact that such an education is not only their right but is also a privilege provided by the democratic society in which they live. In order to perpetuate this society, we have a responsibility, in partnership with parents and community, to help each student develop physically, mentally, socially, emotionally, philosophically, and morally to the fullest extent possible. Furthermore, we as educators, recognize that the teacher is no longer necessarily an imparter of knowledge but a facilitator of learning - one who recognizes individual differences and employs various teaching techniques to help each student actively pursue his or her goals. With these basic principles in mind, our specific objectives are to help students:

1. Develop a sense of self-esteem
2. Learn to respect people of all races, creeds, and nationalities as well as the environment.
3. Recognize that we live in a global community where all nations depend upon each other
4. Develop effective communication skills: reading, writing, speaking, and listening
5. Master fundamental mathematical skills
6. Acquire a knowledge of our national heritage and our democratic form of government
7. Acquire a knowledge of modern scientific processes
8. Gain basic computer literacy
9. Develop critical thinking and research skills as well as creativity and imagination
10. Develop worthy leisure skills
11. Learn to appreciate a variety of art, music, and literature
12. Plan for a realistic future vocation
13. Learn practical skills which will be an asset in the job market and enhance daily living
14. Develop attitudes, skills, and habits that result in safe practices throughout life
15. Maintain good health and develop an optimal level of physical fitness
16. Develop an awareness of the dangers of drug and alcohol use and abuse
17. Learn to seek and accept help from others when problems arise in any area of life
18. Contribute to the school by participating in classroom projects and extra-curricular activities

Library

<http://www.craw.org/chs/library.htm>

Our goal is to provide each student with an enriched library environment containing a wide variety of materials that invite intellectual probing and growth, and to aid all students in acquiring the 21st century skills needed to become a lifetime learner. The library website provides student access to a wide variety of quality databases that are accessible at home as well as at school. Students **MUST** have a signed *Acceptable Use Policy* on file, in the Library, before they are given access to school computers.

E-mail accounts are also provided for CHS students.

Student Activities

Successful academic achievement for our students is the primary objective of Cochranton High School. However, personal and social development is also important. Extra-curricular activities are available to enhance each student's educational experience. The administration strongly encourages all students to be well rounded and to be involved in at least one activity.

Sports:

FALL

JH/SH Football
JH/SH Cross Country
SH Girls Volleyball
JH Girls Basketball
SH Football Cheerleading
SH Golf (MASH)
SH Soccer (MASH)

WINTER

JH/SH Boys Basketball
SH Girls Basketball
JH/SH Wrestling
JH/SH Winter Cheerleading
JH/SH Swimming (MASH)

SPRING

SH Boys Baseball
SH Girls Softball
SH Boys Volleyball
JH Boys/Girls Volleyball
SH Tennis (MASH)
JH/SH Track (MASH)

Clubs & Organizations:

Art Club	Student Council
National Honor Society	Cardinal Tweet
French & Spanish Clubs	Academic Sports League

Musical Groups:

Senior/Junior High Band
Marching & Pep Bands
Vocal Ensemble
Senior/Junior High Chorus

Programs & Policies

Guidance Department:

It is the sincere desire of the Guidance Department that all students feel welcome to take advantage of the services available to them. Our goal is to provide a group of organized services such as counseling, school orientation, career development, testing, and scheduling to assist an individual to:

- ~ **Develop, understand, and accept a complete and adequate picture of themselves and their environment.**
- ~ **Establish goals and develop plans that facilitate college/career readiness.**

Principal's Policy:

In **ALL** cases involving any program or policy, the Principal has the final decision regarding what is implemented

Secondary Gifted Program: (Grades 7-12)

The C.C.S.D. Secondary Gifted Program is designed to promote challenging learning opportunities outside the scope of the regular curriculum, as well as enhance individual student strengths, communication skills, and student self-advocacy and responsibility. The Gifted Program will provide programming through collaborative programs, differentiating instruction within the middle or high school curriculum, and acceleration of courses, which may include early access to Advanced Placement Courses and College credit. Individual student programming options are made during the GIEP conference.

Assessment of Student Progress

Credits Needed for Grade Level Promotion:

Students need to earn the following number of credits for each *Grade Level Status*:

9th to 10th 5 credits **10th to 11th** 11 credits **11th to 12th** 18.7 credits **Graduation** 25.7 credits

Graduation Requirements:

(CCCTC = Crawford County Career and Technical Center)

Courses:	Credits: CHS	Credits: CCCTC/CHS
Language Arts/Communications (English)	4	4
Social Studies (History)	3 or 4	3 or 4
Science	3 or 4	3 or 4
Mathematics	3 or 4	3 or 4
Computer/Technology-Based Electives	2	1
Arts/Humanities	2	2
Physical Education/Health	2.2	2.2
Electives	4.5	5.5
TOTAL CREDITS REQUIRED	25.7	25.7

All students must complete a total of **11 credits** in Social Studies, Science, and Mathematics.

Students may not have more than eight (8) study halls per week.

Pennsylvania Statewide Graduation Requirements:

The Crawford Central School District administers the Keystone Exams in Algebra, Biology, and Literature.

The Keystone Exams are important because they are the measurement for achievement for high schools. They are also important because proficiency on the Keystone Exams will be required for graduation in 2022 and beyond. Students who demonstrate proficiency only participate once for each subject test. Students can meet the statewide graduation requirement by one of the following:

Pathways to Graduation
Act 158 of 2018 and Act 6 of 2017 prescribed multiple pathways for students to meet Pennsylvania's requirements for graduation. These requirements start with the Class of 2023. Students must participate in the Keystone Exams to fulfill federal requirements in ESSA. Students must meet the criteria of one of the pathways to achieve a diploma.

Keystone Proficiency Pathway		
Advanced or Proficient in Algebra I	Advanced or Proficient in Biology	Advanced or Proficient in Literature

Keystone Composite Pathway		
At least 1 Keystone Exam is Advanced or Proficient	No score is Below Basic	Composite Keystone Score is 4452

Career and Technical Education Pathway		
Meet CCSD grade requirement (60%) for Keystone courses in which the student scored Basic or Below Basic and one piece of evidence.		
Industry-based competency certification (i.e., NIMS or NOCTI)	Likelihood of industry-based competency assessment success at CCCTC. This must be determined by the end of grade 11.	Readiness for continued engagement in CTE Concentrator Program of Study at CCCTC. This must be determined by the end of grade 11.

Alternative Assessment Pathway			
Meet CCSD grade requirement (60%) for Keystone courses in which the student scored Basic or Below Basic and one piece of evidence.			
Alternative Assessment- PDE established score on any assessment		ACT Composite-21 ACT WorkKeys NCRC- Gold Level ASVAB AFQT- 31 PSAT/NMSQT- 970 SAT - 1010	
AP Exam- 3 or higher on exam related to each content area in which the student scored Basic or Below Basic.	Algebra AP Calculus AB AP Calculus BC AP Chemistry AP CS A AP CSP AP Physics 1 AP Physics 2 AP Physics C AP Statistics	Biology AP Biology AP Chemistry AP Environmental Science AP Physics 1 AP Physics 2 AP Physics C	Literature AP English Language and Composition AP English Literature and Composition
Dual Enrollment- passing grade in a course related to each Keystone Exam in which the student scored basic or Below Basic.			
Alternative Assessment Pathway-continued-			
Pre-Apprenticeship Program- successful completion of a Labor and Industry registered and Crawford County Career and Technical Center program.			
Acceptance into a four-year Institution of Higher Education for college-level coursework.			

Evidence-Based Pathway
Meet CCSD grade requirement (60%) for Keystone courses in which the student scored Basic or Below Basic and three pieces of evidence.
Evidence: One or more
SAT Subject Test- 630 or better
ACT WorkKeys- Silver letter or better
AP Exam- 3 or better on any exam
Dual Enrollment- passing any course
Industry-based competency certification (i.e., NIMS or NOCTI)
Acceptance into a four-year Institution of Higher Education for college-level coursework.
Evidence: One or Two only
Advanced or Proficient on any Keystone Exam
Service-Learning Project
Letter guaranteeing full-time employment or military enlistment
Internship, Externship, or Cooperative Education Program
NCAA Division II academic requirements for college bound student athletes, with a minimum 2.0 GPA.

If your child did not pass one of the subject areas, he/she will retake the assessment. Students who will retake will be afforded tutoring. If you have any questions, please contact the Curriculum Office, Principal or Guidance Counselor.

Failure to Complete Assignments:

F = Failure. Failure to complete assignments and demonstrated inactivity in class are major contributors to student failure. The following provision may apply to nine-week, semester, or final grades. Blatant refusal to attempt or complete a significant number of course requirements may, by itself, justify a final course grade of an "F". Such failures may occur despite the percentage attained for work that has been completed. Failures assigned for this reason must have the approval of the building principal.

Incomplete Grades:

Incomplete grades for homework, quizzes, tests, papers, etc. caused by absenteeism must be made up within **one (1) week**. In the case of extended illness exceptions can be made. **It is the responsibility of the student to contact all teachers the first day he/she returns to school** to make proper arrangements for making up work. The one-week policy does not apply in the case of pre-announced assignments or tests. Pre-announced work must be made up on the day the student returns.

Weighted Courses:

In some courses such as college preparatory, the final grades are awarded additional quality points which give an advantage when establishing a student's GPA. These courses usually require higher level skills and additional classwork. Weighted courses are identified in the course descriptions.

Honor Roll:

The *Regular Scale* is used to determine Honor Roll. All courses which meet five days per week shall be used in Honor Roll calculations. The *Weighted Scale* is used ONLY for determining GPA in grades 9 through 12.

High Honors: 95 - 100% average for classes

Honor Roll: 83 – 94% average for classes

NOTE: ALL grades must be at least 70% and courses must meet five (5) days per week.

Grade Point Average Information

The Superintendent or a designee will develop administrative regulations for computing grade point averages and assigning class rank to implement this policy.

Grading Scales:

Regular Scale

A = 90 - 100% 4 Pts
B = 80 - 89% 3 Pts
C = 70 - 79% 2 Pts
D = 60 - 69% 1 Pt
F = 0 - 59% 0 Pts

CCCTC Scale

A = 93 -100%
B = 85 - 92%
C = 73 - 84%
D = 65 - 72%
F = 0 - 64%

Weighted Scale

A = 90 -100% 5.00 Pts
B = 80 - 89% 3.75 Pts
C = 70 - 79% 2.50 Pts
D = 60 - 69% 1.25 Pts
F = 0 - 59% 0 Pts

How GPA is calculated:

Grade Point Average is determined by converting the final grade earned into a numerical value and then multiplying by the credit value of the course to find the quality points. The quality point average is found by **dividing the total quality points by total credit value**. An example using only two courses is: *Spanish II - A* (weighted A = 5 x 1credit = 5 quality points); *Modern World History - B* (regular B = 3 x 1credit = 3 quality points). Then the 8 quality points are divided by the 2 credits which equals a quality point average (QPA) of 4.0 on a weighted scale. *Quality Point Average* is commonly called *Grade Point Average*

College courses in English, Math, Science, and Social Studies, and Foreign Language *may* be included in GPA calculations if the student has fulfilled the high school course curriculum sequence. College courses shall count as a half-credit elective course. They will be non-weighted.

District cyber service courses will count towards Honor Roll calculations. Only Advanced Placement cyber courses will be weighted.

How Latin System ranking is determined:

The Board authorizes a weighted system of ranking for students in grades 9-12. Latin System rank will be computed by the Final Grade in all courses that meet five (5) days per week.

Summa Cum Laude: 4.754 – 4.853 weighted GPA

Magna Cum Laude: 4.609 – 4.753 weighted GPA

Cum Laude: 4.366 – 4.608 weighted GPA

Breakdown of Courses Considered for GPA and the Latin System:

Weighted Scale Classes:

English Classes

- ~ AP English Literature
- ~ Challenge English I, II, III, IV

Math Classes

- ~ Algebra II
- ~ Geometry
- ~ Algebra III / Trigonometry
- ~ Statistics
- ~ Pre-Calculus
- ~ Calculus

Science Classes

- ~ Honors Biology I, II
- ~ Honors Chemistry I, II
- ~ AP Physics I, II

Social Studies Classes

- ~ Psychology / Sociology
- ~ AP Psychology

Language Classes

- ~ French I, II, III, IV, V
- ~ Spanish I, II, III, IV, V
- ~ Mandarin I, II

Computer Classes

- ~ Accelerated Comp. Programming I, II
- ~ AP Computer Science Principles /
AP Computer Science A
- ~ Accounting I, II
- ~ Multimedia Publications
- ~ CADD II, III
(CADD I – weighted, but does not count as computer class/credit)

STEM Academy

- ~STEM 11, 12

Crawford County Career & Technical Center (CCCTC) Classes:

Weighted 3rd year only:

- ~ Computer and Information Science
- ~ Drafting and Design Technology/CADD
- ~ Electronic Technology
- ~ Precision Machining

Regular Scale Classes:

English Classes

- ~ Comprehensive English I, II, III, IV

Math Classes

- ~ Practical Algebra I, II
- ~ Algebra I
- ~ Practical Geometry I, II
- ~ Consumer Math

Science Classes

- ~ Academic Biology
- ~ Academic Chemistry
- ~ Academic Physics
- ~ Ecology

Social Studies Classes

- ~ Civics & Government
- ~ American History II
- ~ Modern World History I
- ~ Contemporary World History

Language Classes

None

Computer Classes

- ~ Computer Applications
- ~ Computer and Career Skills
- ~ Computer Programming

Regular Classes

- ~ All Other CCCTC Classes

Post-Secondary/College Information

Filing Applications:

Looking ahead can make filing scholarship, college, or employment applications much easier. It is in your best interest to "give yourself as much credit as possible," and keeping accurate records can do this. Your records should include any honors or awards you have received, committees on which you have served, standardized test results, or other pertinent information. This reference will make applications much easier to complete. A list of school clubs/activities, work experiences, and personal recommendations is extremely helpful.

Financial Aid:

Generally, four types of financial aid are available for post-high school training. These types of aid may be combined to produce "financial aid packages". The financial aid office at the school you plan to attend will assist you by developing your financial aid package. All students must submit the Free Application for Federal Student Aid (FAFSA) form. It is required for almost all financial aid programs.

1. Scholarships - Money awarded that does not have to be repaid. Scholarships are awarded to students who demonstrate or show promise of high achievement in areas such as academics, athletics, music, art, or other fields. Many scholarship applications are received all through the year in the Guidance Office. Students may stop in and pick up applications and information at any time.

2. Grants - Money awarded that does not have to be repaid. Grants are awarded to students based on financial need. PHEAA administers PA State Grants.

3. Loans - Money borrowed that must be repaid at specific interest rates. PHEAA administers several loan programs.

4. Work Study - Payments earned by students who work on campus or off campus to help pay for school costs.

Note: An annual financial aid meeting/workshop is traditionally held by the CCSD Guidance Department for all Juniors and Seniors along with their parents. Attendance for students and their parents is advised to gain knowledge of financial aid procedures. Guest speakers from the Pennsylvania Higher Education Assistance Agency (PHEAA) and a local bank officer will share valuable information and answer individual questions.

College Entrance Exams:

The SAT I and ACT are the acceptable tests for college admission to four-year colleges. The favored test for two-year schools is the ACT. Scheduled test dates are posted and distributed to all Juniors in February. It is important that the application for either test be mailed FIVE WEEKS in advance. After the test date, it takes approximately six weeks before the results are available to the college. Below is the test schedule for these tests (exact dates not set yet):

SAT – October, November, December, January, April, May, or June

ACT – September, October, December, February, April or June

Please keep in mind that the most important part of meeting college admission requirements is to take the proper academic courses and earn good grades.

NCAA Information

More information can be found at <http://www.ncaa.org/student-athletes>. If you have questions about your eligibility or the registration process, call the NCAA toll free at 1-877-262-1492.

Playing Division I or II Sports

If you want to compete in NCAA sports at a Division I or II school, you need to register with the NCAA Eligibility Center to make sure you stay on track to meet initial-eligibility standards.

Grade 9

- Ask your counselor for a list of your high school's [NCAA core courses](#) to make sure you take the right classes.

Grade 10

- Register with the NCAA Eligibility Center at eligibilitycenter.org.

Grade 11

- Check with your counselor to make sure you will graduate on time with the required number of [NCAA core courses](#).
- Take the [ACT or SAT](#) and submit your scores to the NCAA using code 9999.
- At the end of the year, ask your counselor to upload your [official transcript](#) to the NCAA Eligibility Center.

Grade 12

- Finish your last [NCAA core courses](#).
- Take the [ACT or SAT](#) again, if necessary, and submit your scores to the NCAA using code 9999.
- Complete all academic and [amateurism](#) questions in your NCAA Eligibility Center account at eligibilitycenter.org.
- After you graduate, ask your counselor to submit your final [official transcript](#) with proof of graduation to the NCAA Eligibility Center.

Division I Academic Eligibility

To be eligible to compete in NCAA sports during your first year at a Division I school, you must graduate high school and meet **ALL** the following requirements:

- Complete [16 core courses](#):
 - ✓ **Four** years of English
 - ✓ **Three** years of math (Algebra 1 or higher)
 - ✓ **Two** years of natural/physical science (including one year of lab science if your high school offers it)
 - ✓ **One** additional year of English, math or natural/physical science
 - ✓ **Two** years of social science
 - ✓ **Four** additional years of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy
- Complete 10 core courses, including seven in English, math or natural/physical science, before your seventh semester. Once you begin your seventh semester, you may not repeat or replace any of those 10 courses to improve your core-course GPA.
- Earn at least a [2.3 GPA](#) in your core courses.
- Earn an [SAT combined score or ACT sum score](#) matching your core-course GPA on the Division I sliding scale, which balances your test score and core-course GPA. If you have a low test score, you need a higher core-course GPA to be eligible. If you have a low core-course GPA, you need a higher test score to be eligible.

What if you don't meet the requirements?

If you have not met all the Division I academic requirements, you may not compete in your first year at college. However, if you qualify as an academic redshirt you may practice during your first term in college and receive an athletics scholarship for the entire year.

To qualify as an academic redshirt, you must graduate high school and meet **ALL** the following academic requirements:

- Complete 16 [core courses](#):
 - ✓ **Four** years of English
 - ✓ **Three** years of math (Algebra 1 or higher)
 - ✓ **Two** years of natural/physical science (including one year of lab science if your high school offers it)
 - ✓ **One** additional year of English, math or natural/physical science
 - ✓ **Two** years of social science
 - ✓ **Four** additional years of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy
- Earn at least a [2.0 GPA](#) in your core courses.
- Earn an [SAT combined score or ACT sum score](#) matching your core-course GPA on the Division I sliding scale.

If you are concerned you may not meet the Division I academic requirements, consider taking the following actions:

- Ask for advice and accountability from your high school counselor. Check in with the admissions or compliance office at the college you hope to attend.
- Get tutoring or other study help.
- Graduate on time. Division I schools allow college-bound student-athletes who graduate on-time to take one core course during the year after they graduate high school.
- Avoid quick fixes through credit recovery programs. These courses may not be accepted by the NCAA.
- Keep your coursework. If the NCAA Eligibility Center needs to review your record due to irregularities, you may be asked to provide your coursework.
- Follow your high school's policies. The best thing to do is work within the rules.

Division II Academic Eligibility

To be eligible to compete in NCAA sports during your first year at a Division II school, you must meet academic requirements for your core courses, grade-point average (GPA) and test scores.

You must graduate high school and meet **ALL** the following requirements:

- Complete [16 core courses](#):
 - ✓ **Three** years of English.
 - ✓ **Two** years of math (Algebra 1 or higher).
 - ✓ **Two** years of natural or physical science (including one year of lab science if your high school offers it).
 - ✓ **Three** additional years of English, math or natural or physical science
 - ✓ **Two** years of social science
 - ✓ **Four** additional years of English, math, natural or physical science, social science, foreign language, comparative religion or philosophy
- Earn at least a [2.2 GPA](#) in your core courses.
- Earn an [SAT combined score or ACT sum score](#) matching your core-course GPA on the Division II sliding scale, which balances your test score and core-course GPA. If you have a low test score, you need a higher core-course GPA to be eligible. If you have a low core-course GPA, you need a higher test score to be eligible.

Playing Division III Sports

- Division III schools provide an integrated environment focusing on academic success while offering a competitive athletics environment. Division III rules minimize potential conflicts between athletics and academics and focus on regional in-season and conference play.
- While Division III schools do not offer athletics scholarships, 75 percent of Division III student-athletes receive some form of merit or need-based financial aid.
- If you are planning to attend a Division III school, you do not need to register with the NCAA Eligibility Center. Division III schools set their own admissions standards.



Career, Education, and Work

The state of Pennsylvania has enacted standards that describe what a student should know and be able to do in order to be successful in the workplace after leaving secondary education. It is the rapidly changing workplace and the demand for continuous learning and innovation on the part of the workers that drives the need for academic standards in Career, Education, and Work. In accordance with 22 Pa. Code § 4.12(5), career education and work is defined as “*Understanding career options in relationship to individual interests, aptitudes and skills including the relationship between changes in society, technology, government and economy and their effect on individuals and careers. Development of knowledge and skill in job-seeking and job-retaining competencies and, for students completing vocational-technical programs, the skills to succeed in the occupation for which they are prepared.*”

<https://www.pacareerzone.org/>

Pennsylvania’s career-oriented *CareerZone* website lists 23 “Job Families” which are based on the broad sectors in which people are typically employed – they are listed below. In addition, we have listed classes/areas in which a student should focus their course selections/studies throughout their high school experience in order to better prepare them for that particular career field.

Job Family (Occupations)	Focus/Area of Study at CHS
<i>Architecture & Engineering</i>	STEM (<i>esp. CADD</i>)
<i>Arts, Design, Entertainment, Sports, & Media</i>	Art, Business, Multimedia
<i>Building/Grounds & Maintenance</i>	Business, Tech Ed
<i>Business & Financial Operations</i>	Business, Math
<i>Community & Social Services</i>	English, Social Studies
<i>Computer & Mathematical</i>	Computers, STEM
<i>Construction & Extraction</i>	Tech Ed (<i>esp. Construction Tech</i>)
<i>Education, Training, & Library</i>	Social Studies
<i>Farming, Fishing, & Forestry</i>	Science (<i>esp. Ecology</i>)
<i>Food Preparation & Serving Related</i>	Family & Consumer Science (<i>esp. Foods</i>)
<i>Healthcare Practitioner & Technical</i>	Math, Science (<i>esp. Biology</i>)
<i>Healthcare Support</i>	Math, Science (<i>esp. Biology</i>)
<i>Installation, Maintenance, & Repair</i>	Tech Ed
<i>Legal</i>	Business, English, Social Studies
<i>Life, Physical, & Social Science</i>	Science, Social Studies
<i>Management</i>	Business, Tech Ed
<i>Military Specific</i>	Core Subjects
<i>Office & Administrative Support</i>	Business, Computers, English
<i>Personal Care & Service</i>	Science
<i>Production</i>	Tech Ed (<i>esp. Manufacturing/Production</i>)
<i>Protective Service</i>	English, Social Studies
<i>Sales & Related</i>	Business, Foreign Language
<i>Transportation & Material Moving</i>	Math, English, Science



On this page you will find a *Four Year Planner* listing courses available at Cochran Jr/Sr High School, and the most appropriate time to take them. In many cases, the courses follow a basic progression from one year to the next. For example, Algebra II should be taken after the completion of Algebra I. Based on your career interests, this planner will help you create a 'game plan' for picking out courses over the span of your high school career. The Course Selection Process and Descriptions for each course can be found on the pages following this planner. When in doubt, be sure to check with your Guidance Counselor to make sure you are completing the necessary requirements and putting yourself in the best possible position for meeting your Career, Education, and/or Work goals!

Four Year Planner

	Grade 9	Grade 10	Grade 11	Grade 12
English	Comp English I Challenge English I	Comp English II Challenge English II	Comp English III Challenge English III	Comp English IV Challenge English IV AP English Literature
Math	Prac Alg Course I Algebra I Algebra II Geometry	Prac Alg Course II Algebra I Algebra II Geometry Alg III/Trig	Prac Geom Course I Algebra II Geometry Alg III/Trig Statistics Pre-Calc	Prac Geom Course II Geometry Alg III/Trig Statistics Pre-Calc Consumer Math Calculus
Science	Academic Bio Honors Bio I	Academic Chem Honors Chem I	Honors Bio II Honors Chem II Academic Physics AP Physics I	Honors Bio II Honors Chem II AP Physics I-II Ecology
Social Studies	Civics & Govt	American Hist II	Mod World Hist I	Contemp World Hist Psych/Soc AP Psychology
Health/PE	Health PE or Personal Fitness	PE or Personal Fitness	PE or Personal Fitness	PE or Personal Fitness
Required Electives	Computer Apps Comp Apps & Programming	<i>1 of the following:</i> Comp & Career Skills Computer Prog Accel Comp Prog I CADD II/Robotics I		
Electives	French I-II Spanish I-II Mandarin I Band Chorus Music Theory Art I Graphic Art Speech & Drama I Writer's Workshop I Foods I Textiles/Sewing I CADD I/Drafting Construction Tech Yearbook	French I-III Spanish I-III Mandarin I-II Band Chorus Music Theory Art I-II Graphic Art Speech & Drama I-II Writer's Workshop I-II Foods I-II Textiles/Sewing I-II CADD I/Drafting CADD II/Robotics I Construction Tech Manufacturing I Credit Union Yearbook	French I-IV Spanish I-IV Mandarin I-II Band Chorus Music Theory Art I-III Graphic Art Accel Comp Prog I AP Comp Science Princ Accounting I Multimedia Pub Speech & Drama I-II Writer's Workshop I-III Foods I-III Textiles/Sewing I-III CADD I-III Construction Tech Manufacturing I-II Credit Union Student Help Desk Yearbook	French I-V Spanish I-V Mandarin I-II Band Chorus Music Theory Art I-III Advanced Art Graphic Art Accel Comp Prog I AP Comp Science Prin AP Comp Science A Accounting I-II Multimedia Pub Speech & Drama I-II Writer's Workshop I-III Foods I-III Textiles/Sewing I-III CADD I-III Construction Tech Manufacturing I-II Credit Union Student Help Desk Co-Op Yearbook

Course Selection Process

Registration at CHS begins with teachers discussing course selections, teacher recommendations, and course sequences/pre-requisites with the students. Final teacher recommendations will stand unless a change is made as a result of parent/teacher/counselor discussions. Counselors will provide/present a registration assembly to each grade level (current 8th – 11th graders). Registration handbooks will be available and the course selection process will be discussed.

Teacher recommendations will already be entered on a registration form for each individual student. Students will complete two copies of the registration form. The counselor will use one copy during individual sessions with each student. The second copy is to be taken home for a discussion with parents/guardians. Students will be called to the Guidance Office for additional individual sessions if cancellations, conflicts, or changes in interest occur. Each student will walk through a “Mock Schedule” at the end of the year as an additional opportunity to evaluate their schedule and make changes.

Cochranton Junior/Senior High School makes every effort to meet the academic needs of all students. However, other options are available such as additional AP classes at Meadville Area High School and Cyber Services through Crawford Central’s Administrative Offices.

Course Changes and Transfers:

Schedule change dates and policies will be strictly adhered to. Students and Parents/Guardians are given ample time to study course selections and alternates, and to seek additional clarifications from the staff. The Guidance Counselors meet individually with each student prior to the end of the current school year to discuss selections that best meet the individual academic and career needs for each student for the following school year. The student’s signature at that time indicates agreement with the courses selected.

Students will also have the opportunity to change their course selection by scheduling an appointment in the summer, prior to the start of the new school year.

Students and parents are free to subsequently discuss the schedule with guidance counselors, but there will be an effort to keep changes to a minimum. A final schedule will be given to every student on the first day of school. After classes begin, students have a period of 10 class days to request to add-drop classes. These requests may or may not be granted depending on the reasons, the student’s academic level, student behavior history, and seat availability. Once the add-drop period of 10 days has ended the student will receive a mark of “WF” (Withdrawn Failing) on their permanent transcript. Parental involvement is required. Student requests to change teachers WILL NOT be considered.

NOTE: During the school year, a student may be withdrawn from a course for discipline reasons or at the discretion of the administration. The student will receive a “WF” (Withdrawn Failing) for the course on their transcript for this class.

Courses Repeated:

Students who repeat a course will be awarded only the grade and credit of the second year. Previously failed courses will be reflected on the transcript and will affect GPA. Options for making up deficiencies may be to attend summer school, to complete a tutorial program, or to take a correspondence course. Prior approval by the principal is necessary for any of the above methods. **All program costs, including transportation, would be at the student’s expense.**

Course Descriptions

The course descriptions on the following pages are listed alphabetically by department. **NCAA** approved courses are marked with the NCAA symbol. **Weighted** courses are noted as such. Some courses may not be offered each year because there are a limited number of teaching periods by the staff. Senior high students must select courses that meet graduation requirements. All classes meet 5 periods per week all year for 1 credit unless stated otherwise.

Definition of Terms:

Corequisite: An academic course which is required to be taken simultaneously with another course.

Credit: An education credit is the value awarded to each course upon successful completion. Example: 1 credit for Math or .6 credits for Health.

Elective Course: Courses students select from a list of subjects offered by the school that will help fulfill graduation requirements.

Humanities: Studies concerned with culture and society rather than the physical sciences.

Prerequisite: A course that require a particular level of competency in order to successfully compete in a higher level course. *Example: Algebra II, Prerequisite: Algebra I*

Required Course: The State of Pennsylvania establishes courses that must be taken by all students. This means every student must take and pass all required courses in order to graduate. Also included are courses required by Crawford Central School District beyond those set by the state.

ACADEMIC SPORTS LEAGUE

Academic Sports League: (Grades 9-12)

This course focuses on the curriculum designed by the United States Academic Decathlon (USAD). The curriculum unit will change each year as determined by USAD. In addition to reading a required novel, students must study rigorous background material focusing on history, music, art, literature, science, economics, and math. Students who take this class should expect to participate in regional ASL competitions. Students will develop good interview and oral speech delivery techniques. Test taking and essay writing skills are also emphasized.

Note: This course will meet 3 days per week and receive .6 credits. However, in the case that Academic Sports League is not offered as an official course, it will meet as a Club/Activity (and will not be eligible for credits towards Graduation).

ART

Art I: (Grades 9-12)

This yearlong course designed for the more serious-minded art student wishing to progress through the Visual Arts course of study throughout their years at CHS. Students are introduced to the rigor and routine of the art production process including planning, producing and reflecting on art. The first semester will include an intense study of drawing with different mediums including pencil, colored pencil, pastels and marker. Other projects may include but will not be limited to painting, printmaking, collage, mixed medium, ceramics and sculpture. Students will be required to maintain a sketchbook and may begin a collection of art for a portfolio.

The Art of Craft I: (Grades 9-12)

This is a yearlong crafts-based course for the student interested in the creative process of crafting. Students will learn about the art of craft from various time periods and cultures while creating a variety of projects from material including but not limited to paper, paint, clay, fabrics, metal, wood, yarn and found/recycled objects. If a student chooses to take The Art of Craft courses in succession, they may begin to focus and hone their skills in a particular material or process. A sketchbook will be required in this course.

Art II: (Grades 10-12)

This year long course is an opportunity for students to expand on the concepts introduced in Art I. Emphasis will be placed on the development of abilities that are necessary for advanced art courses. Students will investigate contemporary and historical art themes using 2D and 3D media, skills and techniques, while engaging in the art production process.

Students will begin to hone their artistic skills and move toward creating new meaning from various media formats including drawing, painting, printmaking, mixed media, ceramics and sculpture, communicate artistic ideas through the intentional use of the elements and principles of art within their work. A sketchbook and portfolio will be maintained.

Prerequisite: Successful completion of Art I -or- Teacher Recommendation.

Art III: (Grades 11-12)

This yearlong course is an advanced course for the serious art student. The students will practice and refine their art skills and create work that is more self-directed and individualized. Students in this course may be considering a career in the visual art field and may be developing a portfolio for college

Prerequisite: Successful completion of Art II -or- Teacher Recommendation.

Advanced Art III: (Grade 12)

The serious-minded student possibly pursuing a career in the field of art should consider this course. Being self-motivated, the student may devise and propose individual projects based on exploration of a theme, medium, career possibilities. They may finalize their portfolio for submission to art school or college.

Prerequisite: Successful completion of Art III -or- Teacher Recommendation.

COMPUTERS and BUSINESS

Note: All weighted computer classes need a teacher recommendation

All 9th & 10th grade Computer classes will participate in an online Career and College Readiness program as part of Pennsylvania's Chapter 339 requirements. This program is designed to survey and assess the students for personal interests and future goals. Students will also learn soft skills, and language and math skills.

Computer Applications: (Grade 9)

The purpose of this course is to provide students with an understanding of how a personal computer can be used for a variety of applications using an integrated software package. The functions of word processing, spreadsheets, presentations, and publishing will be investigated and used in textbook and real-life activities. Students also delve into career research using Smart Futures.

Computer Applications and Programming: (Grade 9)

The purpose of this course is to provide students with an understanding of how a personal computer can be used for a variety of applications using an integrated software package. The functions of word processing, spreadsheets, presentations, and publishing will be investigated and used in textbook and real-life activities. Students also delve into career research using WIN Learning. This course provides creative and critical thinking experiences, and develops fundamental programming concepts enabling the students to solve problems. Students will learn the python programming language.

Prerequisite: Algebra I with a score of 85% or higher.

Computer & Career Skills (CCS): (Grades 10-12)

This course is designed to review the concepts taught in Computer Applications and then expand upon them. Students will learn how to enhance text documents, analyze, report numerical data, organize, retrieve data and design professional presentations. The second part is managed by Smart Futures. Students will complete questionnaires about their skills and determine their knowledge base. A strategic compass will be developed for career paths. The student will explore skills needed, job opportunities, job families, job openings, cost of college or trade school, and financial aid. They will create a budget and resume'.

Accelerated Computer Programming I: (Grades 10-12)

Weighted

This course provides creative and critical thinking experiences, and develops fundamental programming concepts enabling the students to solve problems. Students will learn the visual basic programming language at an accelerated pace. Students will program multiple authentic solutions.

Prerequisite: Algebra II and 80% in Computer Applications

Advanced Placement Computer Science Principles: (Grades 11-12)

This course continues to develop advanced concepts presented in Computer Programming I. The focus is on programming style and creative solving and programming approaches and techniques. This class is very project oriented. Students will learn advanced concepts of the visual basic language. Students will also learn and use an online app inventor software to develop authentic applications for telephones and portable devices. Students will create both Android and IOS applications. These apps will focus on the STEM fields and will provide the students with real-life meaningful app development. Students will also delve into the Internet, Big Data, digital privacy and security, and the societal impacts of computing.

Prerequisite: 80% in Computer Programming I

Advanced Placement Computer Science A: (Grade 12)

Weighted

This college level full year course continues to expand on advanced algorithm and abstraction programming development. Students will be introduced to alternative programming languages with a strong emphasis in the JavaScript and Java languages. Students will also delve into the Internet, Big Data, digital privacy and security, and the societal impacts of computing. Students will also get to program robots with the Java language. This course has been designed to allow students to sit through the AP Computer Science A-Java Exam.

Prerequisite: 90% in Advanced Placement Computer Science Principles or Teacher Recommendation.

Accounting I: (Grades 11-12)

Weighted

This course provides skills and concepts needed for various accounting, computing, and related office jobs. Subject matter includes the accounting equation, debit/credit rules, transaction analysis, banking activities, petty cash, payroll, journals, ledgers, and income tax returns. Peachtree Accounting Software is used for our Monopoly Businesses. Those who wish to become business majors in college as well as those planning to enter the job market immediately after high school find this knowledge to be an asset.

Accounting II: (Grade 12)

Weighted

Independent study of uncollectable accounts, depreciation, inventory, notes & interest, accrual methods, corporation year-end procedures, partnerships, and international and internet sales.

Prerequisite: 80% in Accounting I

Multimedia Publications: (Grades 11-12)

Weighted

A project-oriented class, this course provides students the opportunity to explore various desktop publishing software. Page layout and design techniques are covered and implemented with various input devices such as scanners and digital cameras. Web page design and ADOBE Photoshop is also covered. Video Filming and Editing for contests is a growing part of this class.

Prerequisite: 80% in Computer Applications and/or Computer & Career Skills

Yearbook: (Grades 9-12)

Yearbook is a production-based elective course that creates the Cochran High School yearbook. Because the staff is responsible for the content, design, layout, ads, and sale of the yearbook, students who choose to be part of this course must be cooperative, punctual, professional, creative, productive, and possess strong reading and writing skills. Students will be responsible for taking photos, conducting interviews, and composing, designing, editing all elements of headlines, captions, text, graphic art, and digital photography layouts, and yearbook distribution in the spring. Participation in this class will support students' development as writers, photographers, editors, and independent users of technology. Staff positions are open to 9th through 12th grade students.

Note: The course also requires students to be available outside of regular class hours to attend sporting events and student activities, attend (possible) summer meetings, and sell and design advertising.

Prerequisite: Successful completion of 8th grade Computer Literacy and/or 9th grade Computer Applications or teacher recommendation.

ENGLISH

Comprehensive English is designed for students who are not planning four year college careers after high school. The content of each course attempts to provide students with a varied background in all aspects of communication, including reading, writing, speaking, and listening. While not as rigorous as the elective Challenge English courses offered, the level of work provided should enable Comprehensive English students to attend college if they should change plans after high school.

Note: A formal research project is required for **all** levels of English.

Challenge English courses are advanced level courses offered to students in grades 9-12. Both Challenge and Comprehensive English offer work in composition, grammar/punctuation, vocabulary, research, and literature; but the level of challenge work is more advanced. **Students who have earned an "A" or "B" in their previous two English courses or have been recommended by the English faculty based on a review of their grades and class performance are asked to enroll in Challenge English.** The English faculty recommends Challenge English for students who plan to attend college and who meet the above criteria.

Note: A formal research project is required for **all** levels of English.

Comprehensive English I: (Grade 9)



This course is the first of a series of courses designed for students who plan to attend a technical school or a two-year community college. Students will cover the aspects of reading, writing, listening, and speaking. *Romeo and Juliet* will be read as an introduction to Shakespeare. American and world literature will be used. Technology will be incorporated with the career research project.

Challenge English I: (Grade 9)

Weighted



This in-depth course is the first in a series of four that have been designed to provide a challenge for students. The major emphasis is placed on a study of the literary genres: short story, novel, poetry, and drama, including *Romeo and Juliet*. Some units of work that are integrated into the study of literature are composition, grammar/punctuation, and vocabulary. A number of writing assignments will range in length from simple paragraphs to a career research paper.

Comprehensive English II: (Grade 10)



This course is a continuation of Comp. I. It is designed as an alternative course for students who plan to attend a technical school or a two-year community college. The course will cover reading, writing, listening, speaking, vocabulary, literature, and grammar review. The literature will consist of all forms of American Literature from various texts. A Shakespearean play, *The Taming of the Shrew* or *A Midsummer Night's Dream*, will be read.

Challenge English II: (Grade 10)

Weighted



This in-depth course is a continuation of the 9th grade Challenge course and is designed to provide a challenge for the higher ability level students. Students should possess a thorough knowledge of English grammar, usage, punctuation, and the basic forms of composition before entering this level course. Advanced level grammar will be reviewed in conjunction with writing. The major emphasis of this class will be an in-depth study of American literature involving extensive discussions, writing activities, and research projects. The literature will consist of all forms of American Literature from various texts. A Shakespeare play, *The Taming of the Shrew*, or *A Midsummer Night's Dream*, is studied.

Comprehensive English III: (Grade 11)



This course is a continuation of Comp. I and II. It will cover aspects of writing, reading, speaking, and listening. Literature selections will expose students to a variety of British texts, including Shakespeare's *Macbeth*.

Challenge English III: (Grade 11)

Weighted



This course is designed to provide work for college-bound students. It includes a chronological survey of British Literature introduced by a short history of the English language and followed by instruction on the epic, *Beowulf*, the King Arthur legend, Chaucer, and Shakespeare. Students will read an array of British literature including books of their own choosing. Students will review effective analytical writing techniques, vocabulary, research techniques, and grammar. Students entering Challenge English III are required to complete a summer reading and writing assignment prior to beginning the course in the fall. Students will receive details and supplies for the summer assignment before school lets out for the summer. The assignment is due at the start of the course; a specific due date and time will be announced before students depart for summer vacation.

Comprehensive English IV: (Grade 12)



This course is the culmination of Comp. I, II, and III. It is designed as an alternative course for students who plan to attend a technical school or two-year community college. The course will review aspects of reading, composition writing, speaking, vocabulary, literature, and grammar. The literature will consist of various types of world literature from a variety of texts. Shakespeare's play *Hamlet* will also be read and studied.

Challenge English IV: (Grade 12)

Weighted



Challenge English IV is a college-preparatory course that is a culmination of the previous three courses with an emphasis on World Literature and cultures via anthologies, novels, plays, poetry, and non-fiction selections. Advanced-level grammar will be taught in conjunction with writing. Other work may include college-level literary analysis, journaling, enrichment in writing, mechanics, word study, and critical composition culminating with a required research project. In addition, students will prepare for the annual spring job fair by learning how to create a resume and developing and polishing job interview skills. Students entering Challenge English IV are required to complete a summer reading and writing assignment prior to beginning the course in the fall. Students will receive details and supplies for the summer assignment before school lets out for summer. The assignment is due at the end of August; a specific due date and time will be announced before students depart for summer vacation.

Advanced Placement English Literature & Composition: (Grade 12)

Weighted



This college-level full year course is concerned primarily with understanding and analyzing literature. Referring to the literature studied, students develop both oral and written compositions throughout the year. Summer reading and analysis assignments and research-based papers are a requirement for this course. The AP student will develop criteria for analyzing and evaluating fiction, drama, and poetry, support opinions by referring to specifics within reading selections, and use the Advanced Placement writing rubric to evaluate essays and research papers. In addition, students will prepare for the annual spring job fair by learning how to create a resume and developing and polishing job interview skills.

Prerequisite: 90% in Challenge English III

Speech & Drama I: (Grades 9-12)

This course is designed to help the student learn oral communication skills through the preparation, delivery, and evaluation of impromptu, personal experience, informative, and persuasive speeches. The **semester of Speech** instruction may also include a unit on analysis of propaganda techniques culminating in a speech performance. The **semester of Drama** is based on some individual performance, but includes more group activities. Students will take part in pantomimes, improvisations, rehearsed skits, and scenes from plays, story-telling and reader's theater. Dramatic productions may be done for other classes.

Speech & Drama II: (Grades 10-12)

This course provides students with opportunities to further develop and polish basic oral communication skills. Students will again be required to prepare speeches and participate in group activities but at a more advanced level. Some of the units to be taught along with speech delivery may include debate and group discussion skills. The semester of Drama II will also build on basic skills previously learned. Students may be required to present pantomimes, dramatic monologues, and Reader's Theater in class or for outside audiences, when available, and scenes from plays.

Prerequisite: Speech & Drama I

Writer's Workshop I: (Grades 9-12)



This course is designed for both the inexperienced writer and the writer who wishes to polish his/her skills. The first objective is to help the beginning writer overcome the resistance to writing on a regular basis; this is accomplished with daily writing exercises. Another objective is to read the works of published writers as models for class writing. This also introduces the student to several different genres. Longer assignments stress step-by-step pre-writing and writing processes. These processes include attention to mechanics and usage as the need develops in student writing. By the end of the year, the student will have had an introduction to analyzing writing style and producing original poems, short stories, and nonfiction pieces such as satires and essays. Also, students will regularly write to contribute to the school newspaper.

Writer's Workshop II: (Grades 10-12)

Students will have the opportunity to do more advanced work with all the genre covered in the beginning course, specifically: nonfiction, which may include memoirs, persuasive essays, satires, interviews, and news articles; fiction, which may include short stories, chapters of a novel, and other short imaginative pieces. There will also be a unit on poetry. A writing portfolio will be required, and each student will be required to submit one piece of writing for possible publication. We will use standard market reference books to analyze publications for target submissions. Frequent journal writings will be used to generate ideas for other pieces.

Prerequisite: Writer's Workshop I

Writer's Workshop III: (Grades 11-12)

Students will have the opportunity to do more advanced work with all the genre covered in the Writer's Workshop I and II, specifically: nonfiction, which may include memoirs, persuasive essays, satires, interviews, and news articles; fiction, which may include short stories, chapters of a novel, and other short imaginative pieces. There will also be a unit on poetry. A writing portfolio will be required, and each student will be required to submit multiple pieces of writing for possible publication. We will use standard market reference books to analyze publications for target submissions. Frequent journal writings will be used to generate ideas for other pieces.

Prerequisite: Writer's Workshop II

FAMILY and CONSUMER SCIENCE

Foods I: (Grades 9-12)

In this course students will learn about food selection, preparation, measurements, storage, and serving. Kitchen safety and organization, as well as the nutritional needs of the body will be included. Students will discover the relationship between nutritious foods and a healthy lifestyle. Some projects may have a fee for materials. No prior cooking experience is required for this course.

Foods II: (Grades 10-12)

The focus of this course will be on the foods, preparation methods, and cultural practices of regions around the world. Students will have the opportunity to research and explore a multitude of cultures, as well as prepare foods from a variety of countries and cuisines. Covered regions will include Middle Eastern, Italian, Mexican, French, German, Chinese, Thai, and Moroccan. Some projects may have a fee for materials.

Prerequisite: Successful completion of Foods I -or- Teacher Recommendation.

Foods III: (Grades 11-12)

This course is an advanced Foods course for students who have completed Foods I and II. We will build on fundamental skills and explore more complex and sophisticated cooking and baking techniques, as well as an exploration of careers in the Foods industry. Some projects may have a fee for materials.

Prerequisite: Successful completion of Foods II -or- Teacher Recommendation.

Textiles & Apparel / Sewing I: (Grades 9-12)

Textiles/Sewing I is a year-long sewing course designed to teach students basic hand and machine sewing skills, including mending, embroidery, and quilting. Students have a wide range of projects to choose from, and independent project selection is encouraged.

Textiles & Apparel / Sewing II: (Grades 10-12)

Textiles/Sewing II is an intermediate level sewing course for students who have completed Textiles I successfully. Sewing skills introduced in Textiles II build on the skills acquired in Sewing I (hand sewing, mending, basic embroidery skills, basic crochet, introduction to the sewing machine, and simple quilting techniques) and introduces advanced hand-sewing and machine sewing techniques.

Prerequisite: Successful completion of Textiles/Sewing I -or- Teacher Recommendation.

Textiles & Apparel / Sewing III: (Grades 11-12)

Textiles/Sewing III is an advanced sewing course for students who have completed Sewing I and II. Students in Sewing III must complete Challenge Contracts identifying the new skills to be learned, including clothing construction, zipper installation, working with commercial patterns, and clothing alterations. Students in Sewing III will also assume leadership roles within the classroom.

Prerequisite: Successful completion of Textiles/Sewing II -or- Teacher Recommendation.

FOREIGN LANGUAGES

French

French I: (Grades 9-12)

Weighted 

Students at this level work with a basic vocabulary and basic grammar in the areas of speaking, listening, writing, and reading. Verbs are conjugated in two tenses. Good pronunciation is emphasized.

French II: (Grades 9-12)

Weighted 

Extending their first year's work, students strive to improve in the four basic skills and concentrate on grammar and on vocabulary expansion; several tenses are introduced. Individuality is encouraged especially in speaking and in writing. Reading in the target language becomes more important.

Prerequisite: French I

French III: (Grades 10-12)

Weighted 

This course is designed to increase the student's vocabulary, grammar, and comprehension. Conversational and writing skills are intended to increase with more advanced levels of proficiency. Reading in the target language is emphasized.

Prerequisite: French II

French IV: (Grades 11-12)

Weighted 

The program reviews some grammatical structures that the student has already studied and provides an in-depth study of new and important grammatical features of the language. The course is also designed to increase the student's fluency in French. The program serves as an introduction to literary works by famous French authors.

Prerequisite: French III

French V: (Grade 12)

Weighted 

Students in this class will use language skills to read authentic French works and continue to augment vocabulary and grammar concepts. Reading, writing, and speaking skills will be emphasized.

Prerequisite: French IV

Mandarin Chinese

Mandarin Chinese I: (Grades 9-12)

Weighted 

This course focuses on the four key areas: listening, speaking, reading, and writing. It represents a blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, participate in simple conversations and respond appropriately to basic conversational prompts, and take frequent assessments where their language progression can be monitored.

Note: This is an online course.

Mandarin Chinese II: (Grades 10-12)

Weighted 

Students continue their study by expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also are able to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. A strong emphasis on providing context and conversational examples is presented in each unit. Character recognition and practice are a key focus of the course. Students should expect to be actively engaged in their own language learning, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, and take frequent assessments where their language progression can be monitored.

Prerequisite: Mandarin Chinese I. **Note:** This is an online course.


Spanish

Spanish I: (Grades 9-12)

Weighted 

This course introduces students to the Spanish language through practice of the four language skills: reading, listening, writing, and speaking. Grammatical concepts are emphasized in the teaching and the use of the four skills. Throughout the year students will develop an awareness of the different customs of the Spanish-speaking countries as well as develop knowledge of geography.


Spanish II: (Grades 9-12)

Weighted 

This course is designed to increase the students' fluency in Spanish. The further development of the four language skills in their natural order are taught: reading, listening, writing, and speaking. This course provides a more in-depth research of the Spanish-speaking world.

Prerequisite: Spanish I


Spanish III: (Grades 10-12)

Weighted 

Practice in the four language skills is continued with increasing emphasis in speaking and writing. Topics from magazine articles and cultural readings are used to initiate ideas for conversation and writing assignments. Study of culture, geography, and history is continued throughout the year.

Prerequisite: Spanish II


Spanish IV: (Grades 11-12)

Weighted 

The program reviews some grammatical structures that the student has already studied and provides an in-depth study of new and important grammatical features of the language. The course is also designed to increase the student's fluency. The program also serves as an introduction to literary works that provide contemporary cultural information.

Prerequisite: Spanish III

Spanish V: (Grade 12)

Weighted 

This course will focus on mastery of all previously acquired linguistic concepts in preparation for college placement exams. Speaking activities will refine students' abilities and comfort in spontaneous speech, while written assessments will focus on accuracy of complex grammatical structures. The study of authentic Spanish in context, including short stories, poems, newspapers, and audio samples will provide bases and themes for refining communication skills. Students will have the option of taking the AP Spanish exam in May.

Prerequisite: Spanish IV

HEALTH and PHYSICAL EDUCATION

Senior High Health: (Grade 9)

This course will provide knowledge that will enable students to make informed decisions and practice healthy behaviors to maintain an optimum level of well-being. The goals necessary to achieve this are to apply skills, concepts, and principles to make informed health decisions; to practice good health habits to prevent illness and injury; to demonstrate knowledge of body functions; to participate in health instruction that includes independent and cooperative learning; and to use resources available to students for future lifetime reference.

Note: This course will meet 3 days per week and receive .6 credits

Senior High Physical Education: (Grades 9-12)

The physical education program for senior high students emphasizes participation in a variety of activities designed to develop skills in different team and individual sports, to learn to play safely and understand the rules of the game, and to know the benefits and value of regular exercise and their contribution to a health lifestyle. Student evaluations are based on levels of performance determined by their achievement in fitness and skill tests and their participation in class activities.

Note: This course will meet 2 days per week and receive .4 credits

Personal Fitness: (Grades 9-12)

This course is a physical education elective which can be taken as the regular physical education requirement. The program will promote lifetime physical fitness by providing knowledge of, and applying exercise principles to various types of activities. Emphasis will be on safe participation, improving physical fitness, and promoting life-long physical activity.

Note: This course will meet 5 days per week and receive 1 credit

Adaptive Physical Education: (Grades 9-12)

The adaptive physical education program provides for participation in physical education and an opportunity for students to improve their level of fitness by participating in a variety of activities appropriate to their condition and modified/adapted to meet their individual needs. Emphasis is on safe participation, improving physical fitness and promoting life-long physical activity. Students may be scheduled into adaptive physical education by teacher recommendation, doctor recommendation, or I.E.P.

MATHEMATICS

Note: Having your own calculator (Scientific and/or Graphing) will be helpful, but is not required unless noted.

Note: Students may only concurrently enroll in Algebra II & Geometry -or- Geometry & Algebra III

Practical Algebra Course I: (Grades 9-12)

This course is designed to give each student basic algebra concepts. Each participant must then move to Practical Algebra II the following year. Topics to be covered include variables, rational numbers, order of operations, equations, solving and graphing functions, writing equations, solving and graphing inequalities. These topics will start the preparation for the Algebra 1 Keystone Exams, which will be taken near the end of the Practical Algebra Course.

Practical Algebra Course II: (Grades 10-12)

This course continues, enhances, and broadens concepts from Practical Algebra I and introduces new concepts to give students a basic Algebra foundation. Successful completion of this course, in conjunction with Practical Algebra I, is equivalent to Algebra I. Topics include: systems, exponents, polynomials, factoring, quadratic functions, and radicals. Students will take the Algebra 1 Keystone Exam near the end of this course.

Prerequisite: Practical Algebra Course I

Algebra I: (Grades 9-12)



Students will be preparing for the Algebra I Keystone Exam to be taken near the end of the course. Students will be focusing on solving linear equations, inequalities and systems of equations and inequalities; identifying and graphing functions; linear regression; basic factoring techniques; simplifying radical and polynomial expressions; laws of exponents; data analysis, and probability. Calculators are permitted, but graphing calculators are not permitted.

Algebra II: (Grades 9-12)

Weighted



The Algebra II curriculum includes the refinement and extension of mathematical relationships that began in Algebra I, while developing algebraic skills necessary for higher mathematics. Quadratic equation solving is emphasized with application to the solution of word problems. An introduction is given to polynomial, exponential and logarithmic functions, and rational equations.

Prerequisite: 70% in Algebra I

Practical Geometry Course I: (Grades 11-12)



Practical Geometry I is a course designed to follow the sequence of Practical Algebra Courses I & II. Basics of geometry include segments and angles, parallel and perpendicular lines, triangle relationships, congruent triangles, and quadrilaterals. This course is not designed as a rigid academic geometry course.

Practical Geometry Course II: (Grade 12)

The course includes – similarity, ratio of proportion, polygons and area, surface area and volume, right triangles and trigonometry, circles, tangents, arcs, chords, inscribed angles, and polygons.

Prerequisite: Practical Geometry Course I

Geometry: (Grades 9-12)

Weighted

This course provides an in-depth exploration of Euclidean geometry. It is proof oriented, includes the study of both plane and solid geometry, and introduces transformation geometry.

Prerequisite: Algebra II -or- concurrent enrollment in Algebra II

Algebra III/Trigonometry: (Grades 10-12)

Weighted

This course is an introduction to trigonometry designed for students going to college. The specific topics in algebra that are covered are based upon the teacher's assessment of the needs of the particular class. The topics in trigonometry which are covered include the trigonometric functions, graphs of the trigonometric functions, specific applications of trigonometry to such areas as surveying, construction, navigation, angular velocity, force, electricity, and sound are made.

Prerequisite: Algebra II and Geometry -or- Algebra II and concurrent enrollment in Geometry

Pre-Calculus: (Grades 11-12)

Weighted

The pre-calculus curriculum extends the study of abstract mathematical relationships beyond the basic academic courses to prepare students for college level mathematics. The curriculum includes advanced concepts in algebra and trigonometry necessary for calculus.

Prerequisite: 70% in Algebra III/Trigonometry

Statistics: (Grades 11-12)

Weighted

The course examines topics such as data collection methods, experimentation graphical and numerical descriptive statistics, analyzing bivariate data, probability, probability and sampling distributions, confidence intervals, hypothesis testing, comparing two treatments, analyzing categorical data, and inferential methods. The course uses graphing calculators and computers to enhance development of statistical understanding through exploring data, analyzing data, and assessing models.

Prerequisite: 70% in Algebra III/Trigonometry

Note: A graphing calculator is required.

Calculus: (Grade 12)

Weighted

This course is intended for the student who is considering a career in Math or the Sciences, including medical fields, or for those who really enjoy math. It begins with a review of functions and builds to the real-life application of derivatives and integrals. This course also includes an introduction to 3-dimensional graphing, partial derivatives, and incorporates an end of the year review of college algebra concepts, such as solving logarithmic and exponential equations.

Prerequisite: 85% in Pre-Calculus -or- Teacher Recommendation

Consumer Math: (Grade 12)

This is a general mathematics course that focuses on typical, everyday consumer problems where basic mathematical skills must be applied. The course includes essential family life topics such as transportation, food, clothing, and shelter as well as personal finance topics such as income, banking, taxes, credit, budgets, and insurance.

MUSIC

Senior High Chorus: (Grades 9-12)

Students in grades 9 through 12 who like to perform vocally rehearse to sing SAB (mixed voices) choral literature. There are several public performances each year.

Note: This course will meet 2 days per week and receive .4 credits

Senior High Concert Band: (Grades 9-12)

Students in grades 9 through 12 who are proficient on concert band instruments perform traditional and contemporary symphonic band literature. Pep band, marching band, and ensembles are chosen from this group. There are several public performances each year.

Note: This course will meet 3 days per week and receive .6 credits

Music Theory: (Grades 9-12)

This is an excellent preparation course for those students planning on careers in music or for those who want to learn more about the theoretical techniques of music chord harmonies, part writing, and composing. Ear training and sight singing may also be explored.

RESOURCE

Resource: (Grades 9-12)

Students with IEPs that are experiencing some difficulty in a particular area come to the resource room. In the resource room instruction is tailored to meet specific needs. It may include support in regular classroom work, remediation of perceptual deficits and basic compensation skills.

SCIENCE

BIOLOGY

Academic Biology: (Grade 9)




This course provides a basic overview of the fundamentals of biological science. Topics will include structure, development, and reproduction of living things, heredity, and the fundamental principles of ecology. Class work will be supplemented with laboratory activities.

Honors Biology I: (Grade 9)

Weighted



This course provides an in-depth study of biology including cell structure and function, reproduction, heredity, and an introduction to evolution and ecology. Laboratory investigations will be conducted. Students who intend to continue their education beyond the high school level are encouraged to take this course.

Honors Biology II: (Grades 11-12)**Weighted** 

This course is highly recommended for students interested in pursuing careers in health care (technicians, nurses, doctors, geneticists, sports medicine, physical therapy, etc.), or biotechnology related industries. The course is an in-depth study of biology with an emphasis on the chemical aspects of cellular and body functions essential to life. Other topics will include anatomy and physiology, and biology labs. Investigations are an integral part of this course.

Prerequisite: Honors Biology I and Honors Chemistry I

CHEMISTRY**Academic Chemistry: (Grade 10)**

This course provides an introduction to chemistry, employing an inquiry approach to developing laboratory skills, experiment design, communication skills, and the use of mathematics. Emphasis is placed on problem solving and critical thinking.

Honors Chemistry I: (Grade 10)**Weighted** 

This course provides an in-depth study of chemistry suitable for students planning to enroll in a science related major in college. A strong emphasis on laboratory techniques, mathematics, and writing skills is integral to this rigorous course.


Honors Chemistry II: (Grades 11-12)**Weighted** 

Students will further develop themes learned in Honors Chemistry I. Advanced math is utilized. Data collection, and analysis during and after labs, is a large concentration. This course is intended for students entering a college major in engineering or other chemistry related fields.

Prerequisite: Honors Chemistry I

PHYSICS**Academic Physics: (Grade 11)**

The topics included are making measurements; recording and interpreting data; description of forces; kinematics and dynamics; description of temperature and heat and their effects on matter, waves, light, electricity; and nuclear changes in matter.

Advanced Placement Physics I: (Grades 11-12)**Weighted** 

This is an AP laboratory course. It is designed to meet the requirements for students to be able to sit for the AP Physics 1 (algebra-based) exam. The course will explore principles of Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. This is a mathematically rigorous course that will explore the subjects presented in great detail and at an accelerated pace. The focus will be on inquiry-based analyses of the properties of objects and systems, and their interactions.

Prerequisite: Teacher Recommendation

Advanced Placement Physics II: (Grade 12)**Weighted** 

This is an AP laboratory course. It is designed to meet the requirements for students to be able to sit for the AP Physics 2 (algebra-based) exam. The course will explore principles of fluids, thermodynamics, electricity, magnetism, optics, and topics in modern physics. This is a mathematically rigorous course that will explore the subjects presented in great detail and at an accelerated pace. The focus will be on inquiry-based analyses of the properties of objects and systems, and their interactions.

Prerequisite: AP Physics I and Teacher Recommendation

ECOLOGY

Ecology: (Grade 12)



Ecology is the study of various aspects of the environment and the interactions that occur among various organisms within the environment. Interactions that occur between organisms and the non-living factors of the environment are also studied. A particular emphasis is placed upon the role that humans play in the environment and the effects that their actions, both positive and negative, have on the living and non-living components of the world around them. Additionally, throughout all units of study, the role that the environment plays in the well-being of humans is emphasized, including the establishment of laws and regulations to protect both the environment and our health. This course is designed for students of all ability levels and academic pursuits.

SOCIAL STUDIES

Civics & Government: (Grade 9)



This course is a study of the structures, processes and issues of national, state, and local government. The course emphasizes the responsibilities and rights of citizenship, the skills necessary for critical thinking, and the knowledge appropriate for effective decision making while addressing requirements determined by state, national, and common core standards. The first semester will be focused on national government and the second semester's focus will be on state and local governments.

American History II: (Grade 10)



This course will integrate geography, historical events and the actions of people to explain how the society and government of the United States has changed from the Civil War through World War II.

Modern World History I: (Grade 11)



This course examines the social and intellectual currents from the time of the Renaissance through WWII as reflected in geography, philosophy, religion, politics, economics, the sciences, technology, and social structure.

Contemporary World History: (Grade 12)



This course will integrate geography, historical events and the actions of people to explain how society and government has changed from WWII to the present.

Psychology/Sociology: (Grade 12)

Weighted



This is a year-long course divided into semesters. It is an intensive course and will include many supplemental readings, written assignments, and projects.

PSYCHOLOGY encompasses broad areas of research about human behavior. This course is designed to be an introduction to Psychology and psychological analysis. After studying the theories and methods of the discipline, our study will focus on applying psychology to the world around us both actively and intellectually.

SOCIOLOGY encompasses research about human society and interaction. This course is designed to be an introduction to Sociology and sociological analysis. After studying the theories and methods of the discipline, our study will focus on social interaction, social institutions, and social change.

Prerequisite: 90% in BOTH Modern World History I and Challenge English III

Advanced Placement Psychology: (Grade 12)

Weighted 

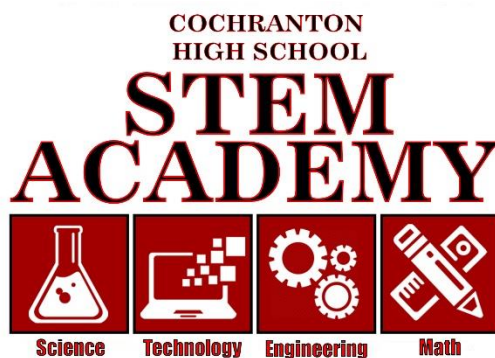
The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, personality, treatment of abnormal behavior, and social psychology.

Prerequisite: 90% in BOTH Modern World History I and Challenge English III; Must be in Challenge English IV or AP English Literature & Composition

STEM ACADEMY

This program is designed for the students whose academic ability and intrinsic motivation have earned them an opportunity to apply for extended learning challenges specific to the areas of **Science, Technology, Engineering,** and **Mathematics**. Selected students work with the STEM Advisor to follow a supplemental curriculum embedded with individualized elements best suited for the student. Elements of learning may include online course work, student projects and presentations, field trips, job shadowing, career exploration, post-secondary education visits, and more. Assignments and activities associated with the STEM Academy function concurrently with students' normal courses of study.

Note: The STEM Academy program is structured as two Independent Study courses: **STEM 11** and **STEM 12**



STEM 11: (Grade 11)

Weighted

STEM 11 is the first of two courses in the STEM Academy where selected students explore applications of Science, Technology, Engineering, and Mathematics. This independent study course emphasizes the cross-curricular connections of the STEM disciplines and looks further to real-world applications. Students work through the curriculum and activities with the STEM Advisors.

Prerequisite: Selection by the STEM Committee

Corequisites: **Science:** AP Physics I **and either** Honors Chemistry II or Honors Biology II

Math: Pre-Calculus or higher

Electives: *Either* Accelerated Computer Programming II, CADD I, CADD II, or CADD III

English: Challenge English III

Note: This course meets periodically throughout the school year and is worth 1 credit.

STEM 12: (Grade 12)

Weighted

STEM 12 is the second of two courses in the STEM Academy where students coming from STEM 11 delve deeper into more specific areas of Science, Technology, Engineering, and Mathematics. This independent study course challenges the student to explore STEM topics most aligned with their post-secondary pursuits. Students work through the curriculum and activities with the STEM Advisors.

Prerequisite: STEM 11 and Teacher Recommendation

Corequisites: **Science:** AP Physics II **and either** Honors Chemistry II or Honors Biology II
Math: Calculus or higher
Electives: *Either* AP Computer Science Principles, AP Computer Science, CADD I, CADD II, or CADD III
English: AP English Literature
Social Studies: *Either* Psychology/Sociology or AP Psychology

Note: This course meets periodically throughout the school year and is worth 1 credit.

TECHNICAL EDUCATION

Students enrolled in Technology Education/Engineering classes will be **REQUIRED** to pay for the material for their own student design projects.

Note: CADD II/Robotics Engineering I -or- CADD III/Robotics Engineering II may be counted as computer credits for graduation purposes.

CADD I/Fundamentals of Drafting: (Grades 9-12)

Weighted

This course deals with various aspects of mechanical and computer aided drafting. It offers the opportunity to learn drafting techniques used in today's industry. The first quarter of the class will focus on mechanical drawing aspects such as 2-D drawings, multi-view drawings, and 3-D drawings. The rest of the year will focus on computer aided drafting where students will use 3-D parametric software to design, engineer, test, and analyze different mechanical parts. This class is an excellent prerequisite for students perusing a career in mechanical, civil, or other aspects of engineering or design.

CADD II/Robotics Engineering I: (Grades 10-12)

Weighted

This course starts with a review of Solidworks and CADD 1. Students in this class will be a part of the Student NTMA Club and will have the opportunity to design, engineer, manufacture, simulate, and analyze a working combat robot produced by his/her group. Students will compete in the annual Robobots competition and work hand in hand with local tooling/manufacturing industry leaders. Students will create working prototypes using 3D printing and Laser technologies, parametric models, parametric assemblies, working drawings, and robotic portfolios. Students will learn precision machining principles, DC electronics, and Finite Element Analysis (FEA) just to name a few. Students will also be taking the CSWA Certification exam during the last 9 weeks of the course. If passed, students will earn 3 credits towards Edinboro University of PA's Manufacturing Technologies program. This class is a **MUST** for any student pursuing a career in precision machining, engineering, design, electronics, or drafting design.

Prerequisite: CADD I/Fundamentals of Drafting I and Teacher Recommendation

CADD III/Robotics Engineering II: (Grades 11-12)

Weighted

CADD III coursework will focus on aspect of engineering and precision machining such as static and dynamic Solidworks simulations, reengineering of combat robotics designs, presentation skills, CNC machining, MasterCAM programming, as well as other engineering disciplines. This course also requires multiple hours to be spent outside the classroom for manufacturing of robotic designs and meeting with industry leaders.

Prerequisite: CADD II/Robotics Engineering I and Teacher Recommendation

Construction Technology: (Grades 9-12)

This course will focus on the everyday tools, techniques, and skills used in everyday construction and manufacturing. The first semester of the class will focus on the proper operation of power and hand tools such as the portable drill, circular saw, planer, jointer, table saw, miter saw, and others. Students will be guided through units on foundation construction, floor framing, wall framing, shingling, A/C wiring, and others. From the skills and knowledge achieved during the first semester, the class will design an outdoor shed in Solidworks which they will build for a fundraiser and auction during the following school year. The last twelve weeks of class will be spent outside building the outdoor shed.

Manufacturing/Production I: (Grades 10-12)

This course will focus on aspects of the Manufacturing Industry. Students will be given the opportunity to design, construct, analyze, and finish projects from start to finish based on manufacturing skills used today. This class will also give the students the opportunity to form a Manufacturing Enterprise business and mass produce a project that the students will sell as a fund raiser.

Prerequisite: Construction Technology

Manufacturing/Production II: (Grades 11-12)

This course is a continuation of Manufacturing/Production I. The course is project orientated and designed to allow students the opportunity to develop a more in-depth study of wood and metals technology. Student projects may be constructed using the materials in the lab but for larger scale projects students will need to supply the funds for the materials needed.

Prerequisite: Manufacturing/Production I

WORK EXPERIENCE

Student Help Desk Volunteer: (Grades 7-9)

Students may volunteer to assist at the CHS Library/Media Center Help Desk during his/her scheduled study hall. Students will provide trouble shooting support to peers and teachers while enhancing their own knowledge of technology and interpersonal communication through hands-on experience. Students may submit an application for consideration in the CHS Library/Media Center.

Note: This opportunity is not for credit.

One Federal Credit Union: (Grades 10-12)

The Credit Union, along with CHS, and the National Endowment for Financial Education, has created a rare life/work experience for students. Students may submit an application and resume' for consideration as an employee in the student-run credit union, located in the CHS cafeteria. The employment is a two year commitment and does involve paid training in the summer.

Note: This course is not weighted and counts as a 0.5 credit per year for a total of 1 credit in a two year period.

DELL Student Tech Crew: (Grades 10-12)

This course will meet at the CHS Library/Media Center where students will complete the DELL Client Foundations Certification. Students will provide technical support to peers and teachers while enhancing their own knowledge of technology and interpersonal communication through experience and self-directed training. Students may submit an application for consideration in the CHS Library/Media Center.

Note: Each year counts as an un-weighted .5 credit per year for a total of 1 credit in a two year period.

Cooperative Education: (Grade 12)

Cooperative education is a work experience and **MUST** be arranged through the Cooperative Education Coordinator at CCCTC. A student can earn 3 credits with a co-op experience, but cannot apply after the second grading period.



CRAWFORD COUNTY CAREER & TECHNICAL CENTER (CCCTC)

Note: All courses are worth 3 credits per year

Auto Collision Technology: (Grades 10-12)

The Auto Collision Course includes instruction in the removal of dents, repair of rusted or damaged panels, replacement and installation of parts and accessories, preparation and refinishing of spot repairs, and complete auto painting and refinishing. Additional learning experiences are provided in using small hand tools, specialized equipment including the most modern tools used in the collision trade and estimating the cost of repairs.

Auto Technology: (Grades 10-12)

This course provides practical instruction in the diagnosis, repair and adjustment of problems related to gasoline-powered motor vehicles. The mechanic must determine what tools and parts are necessary to repair the car, estimate the cost of repairs, and discuss the entire situation with the customer. Areas of study include: transmissions, hydraulic brake systems, electrical and cooling systems, motor tune-up and front-end alignments.

Carpentry: (Grades 11-12)

The curriculum will deal with the erection and installation of buildings and other structures using assorted materials such as metal, wood, glass, concrete, or composition substances. Instruction is provided in the basic skills of carpentry, masonry, and a variety of activities associated with building construction. These include: cost estimating, cutting, fitting, fastening, and finishing various materials. Students will use a variety of hand powered tools, learn blueprint reading and following technical properties of materials.

Computer and Information Science: (Grades 10-12)

3rd year Weighted

This program concentrates on the studies required to achieve 2 year and 1 year certifications. The student becomes skilled at computer maintenance and repair, and network fundamentals. The CompTIA, IT Fundamentals, and A+ certifications are the industry standard for computer support technicians. These certifications prove competence in areas such as installation, preventative maintenance, networking, security and troubleshooting. Information technology, even in a tough economy, is a rapidly growing and necessary field. Students who achieve their CompTIA certifications means increased job security, additional career opportunities and increased credibility in the workplace.

NOTE: Strong aptitude for math and science necessary.

Cosmetology: (Grades 10-12)

The Cosmetology course provides students the training required to become state licensed Cosmetologists. In the exciting world of style and fashion, the Cosmetology classroom is on the “cutting edge.” Classroom instruction and clinical experience provide the training needed to perform skills used in today’s ever-changing industry. Upon completion of this 1250 required-hour course, the student is prepared to take the state examination for a Cosmetologist license in Pennsylvania. Employment opportunities are limitless as cosmetologists; this license enables cosmetologists to work in any salon, be make-up artists, wedding and event stylists, product educators, sales representatives, color specialists, artistic directors, a business owner or many other opportunities.

Culinary Arts & Restaurant Management: (Grades 10-12)

The Culinary Arts & Restaurant Management course provides the theory and practice for food preparation and service required in the food service industry. Students learn how to operate and care for kitchen equipment, prepare and serve food, plan menus and a variety of skills required to operate and maintain a restaurant. Students practice their serving techniques at the on-site restaurant. Participants have the opportunity to achieve multiple national certifications.

Diesel Technology: (Grades 10-12)

The Diesel Technology course prepares students for the future by including the study of small engine technology along with the training in diesel service and maintenance. The course offers training in all area of mechanics including diagnosis, overhaul and maintenance for automotive, agriculture, trucking and recreational vehicles. Students are able to train, test and qualify for the PA State Inspection License. All this adds up to an exciting and valuable training opportunity for the future mechanical technician.

Drafting and Design Technology/CADD: (Grades 10-12)

3rd year Weighted

The Drafting and Design Technology/CADD class is devoted to training students for college engineering programs and the work force. This course will provide a broad and thorough knowledge of the principle methods by which draftspersons, engineers, technicians, and designers in the field express ideas to the craft persons who fabricate the item used in everyday life. Work in this course will give the student an opportunity to develop the necessary technical skills in the use of 2D CADD software, 3D solid modeling, and 3D printing used to produce electronic files and rapid prototypes. Emphasis is placed upon acquiring the necessary technical knowledge to be able to orally, graphically, mathematically, and scientifically translate the idea of the engineer, technician, and tradesperson into a practical graphic language. The course stresses the relationship between theory and practice. Through the application of principles that provide entry level skills and “hands-on” experiences on computer aided drafting systems. Areas of specialization include mechanical, architectural, and civil drafting as well as technical illustration.

NOTE: Strong aptitude for math and science is necessary.

Electrical Occupations: (Grades 11-12)

The Electrical Occupations course includes training in layout, assembly, installation, and testing of wiring and devices used in heating, lighting, power, motor control and other electrical systems at residences, factories, commercial, and other buildings. Classroom work includes electrical theory, diagram and blueprint reading, estimating for electrical repair and building wiring, and electrical and occupational safety, health act code requirements. Students will work in the shop to perform house wiring, motor, and motor control projects.

Electronics Technology: (Grades 10-12)

3rd year Weighted

The Electronics Technology course is designed to give students a working knowledge of Basic Electricity and Electronics, Analog Electronics and Digital Electronics. The knowledge gained through this course prepares the student for an entry level position in the field. It is an excellent preparatory for post-secondary education where the student can earn an Associate's Degree or Engineering Degree from a number of institutions of higher learning. Some regional post-secondary technical schools and colleges have articulation agreements with the Career and Technical Center. This provides opportunity for the student to earn credit towards college courses while still in high school. Electronics continues to be a high-demand field in most of the country.

Graduates of this program are currently employed in several sectors of the industry including communication, avionics, telecommunications, biomedical engineering, industrial controls and maintenance, various manufacturing sectors, education and more.

All branches of the armed services offer tremendous opportunities to graduates of the Electronics Technology course in a myriad of fields. Graduates from the program have or are currently serving in all branches as communications specialists, intelligence and counter intelligence specialists, electronics technician, guidance technicians, the Navy Nuclear Power Program technician and more.

NOTE: Strong aptitude for math and science is necessary.

Health Occupations: (Grades 11-12)

The Health Occupations course introduces students to varied aspects to the Health Care profession. The first-year students are introduced to basic anatomy, physiology, medical terminology, and hands-on training of 61 beginning health care skills. Students spend time researching medical careers as well. The second year of the course deals with health care information related to direct care of the sick, disabled, or infirm. The training is applicable toward certification as a Nurse's Aide. Students will earn OSHA-10 healthcare Industry Certification as well. Students will be provided a clinical experience as part of their training

Heating, Ventilation & Air Conditioning Tech: (Grades 10-12)

The Heating, Ventilation, Air Conditioning (HVAC) Technology program will prepare students to apply technical knowledge and skills to repair, install, service, and maintain the operating condition of heating, air conditioning, and refrigeration systems. The program will have a solid educational base on which to build a post-secondary degree or advanced certifications.

NOTE: This program will require a high aptitude in mathematics and problem solving.

Precision Machining: (Grades 10-12)

3rd year Weighted

The Precision Machining curriculum is designed to provide Entry Level instruction in setting up and operating industrial type machinery. A machinist is a skilled worker who, working from blueprints, and written/verbal specifications, can operate all kinds of machine tools to cut, drill, grind, or otherwise shape and size material with an extremely high degree of accuracy to make the part to the print. Machinists and toolmakers are skilled workers who provide tools and special guiding and holding devices that are used to mass-produce a variety of machined parts. Using basic manual machines, advanced CNC machine tools and precision measuring instruments, students work with the metals and alloys commonly used in manufacturing and hold tolerances acceptable in industry. In this course, the student will develop a basic knowledge of machine operation, standard shop practices, blueprint reading, metal processes, heat treating and related mathematics. All machines and instruments are commonly used in industry. One hour of related theory will be provided for every six hours in the shop. The students practice their skills by making precision tools which they get to keep and use in their career in the machining industry.

NOTE: Strong aptitude in math and science is necessary.

Veterinary Technology: (Grades 10-12)

The Veterinary Technology Program will prepare individuals, under the supervision of veterinarians, laboratory animal specialists, and zoological professionals, to provide patient management, care, clinical procedure assistance, and owner communication. Students will receive training to enter entry level positions, as well as a solid education base on which to build a post-secondary degree.

Welding: (Grades 10-12)

Welding is the process of joining pieces of metal by applying intense heat to melt or fuse the metal with the use of an electric arc or gas flame. It is the most common method of permanently connecting various metal parts that go into the construction of automobiles, spacecraft, ships, household appliances, and steel reinforcing rods in bridges, buildings, and roads. Students in the welding technology course will learn gas, arc, TIG, MIG, flux core, and pipe welding in accordance with the American Welding Society and the American standard of testing material specification, passing all-position guide bend tests. This will qualify the student as an all-position welder. The welding student will also learn blueprint reading, welder's math for fabrication, fabrication, and arc-air cutting process. Safety is stressed in all areas of welding.

Capstone Co-Op: (Grade 12)

Capstone Co-Op is open to current Career Tech seniors with a job related to the occupational field in which the student is currently studying at Crawford County CTC. The student must have completed the basic skill competency training in their shop area and continue training in that field on the job. The student must be recommended by their instructor and have acceptable conduct and classroom grades. Students attend CHS for half of the day to complete academic requirements for graduation and spend the other half of the day on the job at school approved work sites.

Employers sign a training agreement with Crawford County CTC to supervise and train the student. Grades are based on employer evaluations of the student's work performance and weekly scheduled co-op classes at the Career Tech School. The class covers business topics including career planning, job seeking skills, job survival skills, management, taxes, social security, insurance, banking, starting a business, and safety. Students receive a certificate from Crawford County CTC both in their shop area and Capstone Co-Op.

Diversified Occupations (Co-Op): (Grade 12)

Diversified Occupations is a planned vocational program which is offered at the career center. The program prepares a diverse group of students for more than one vocational education area of instruction for gainful employment. The program is a direct relationship/partnership between a local business/industry and the CCCTC. Employers sign a training agreement with Crawford County CTC to supervise and train the student. Grades are based on employer evaluations of the student's work performance and weekly scheduled co-op classes at the Career Tech School. The class covers business topics including career planning, job seeking skills, job survival skills, management, taxes, social security, insurance, banking, starting a business, and safety. Students receive a certificate from Crawford County CTC.

COURSES FOR GRADES 7 & 8

Promotion Policy for 7th and 8th Graders:

If a 7th or 8th grade student fails two Core subjects/ one Core subject and two Encore courses /or four Encore courses, he/she will be **retained in the same grade** the following year. A **Core** subject is one that meets one period per day, five days per week for the entire year. All other classes are considered **Encore** courses. In the case of nine-week classes, two nine-week classes will be considered one Encore course.

ART

Art: (Grades 7 & 8)

9 weeks

This is a 9-week introductory studio course that will review previously learned skills and will introduce new skills in both 2-D and 3-D forms of art making. Students will create and keep a sketchbook and will focus on drawing, painting, the elements and principles of design and ceramics. Emphasis will be placed on proper use and care of art materials and the art studio.

COMPUTERS

Computer Literacy: (Grade 7)

9 weeks

In this course students will study personal computer topics. Introduction and practice is provided to familiarize students with computer hardware and software. Use of internet, internet safety and efficiency are discussed.

Discovering Computer Science 7: (Grade 7)

9 weeks

Computer science encourages you to solve problems. You must use problem-solving and critical thinking skills as you learn programming. You will be introduced to core coding concepts using the Swift programming language (Apple's coding language). You will learn basic coding concepts in a fun learning environment: commands, functions, looping, data types, and variables.

Career Skills: (Grade 8)

9 weeks

In this course students will use more computer science topics to further their use of computers. The course will focus on the following applications: Word Processing, Spreadsheet, and PowerPoint.

Discovering Computer Science 8: (Grade 8)

9 weeks

Computer science encourages you to solve problems. You must use problem-solving and critical thinking skills as you learn programming. You will continue to expand on your coding experiences to date. You will continue to master the basic concepts learned in 7th grade and be introduced to more advanced coding concepts: Functions with Parameters, Logical conditional

ENGLISH

English: (Grade 7)

Seventh grade English concentrates on reading literature and non-fiction text, as well as basic grammar and composition. Literary selections include poetry, drama, short stories, a variety of non-fiction pieces, and at least two full books. The course is designed to enhance reading and writing skills that are assessed on the English Language Arts PSSA test. The class adopts and applies the philosophies of a “Reading Apprenticeship Classroom.” That is, students learn to think about their own thinking (“metacognition”) as they read in order to acquire knowledge from text.

English: (Grade 8)

Eighth grade English builds on skills and knowledge acquired in Seventh Grade English. It concentrates on reading increasingly complex literature and non-fiction text, as well as basic grammar and composition. Vocabulary acquisition is a main focus. Literary selections include poetry, short stories, drama, non-fiction pieces, and at least one full-length book. The course is designed to help students master reading and language skills that are assessed on the English Language Arts PSSA. The class adopts and applies the philosophy of “Reading Apprenticeship Classroom.” That is, students learn to think about their own thinking (“metacognition”) as they read, in order to acquire knowledge from a text. The course culminates in a collaborative research project with the 8th Grade Social Studies course in which students learn how to choose a topic, gather and cite reputable sources, take notes, create a final project, and present their research to an audience.

FAMILY AND CONSUMER SCIENCE

Teen Life: (Grade 7)

9 weeks

This is an introductory course to Family and Consumer Science for all 7th grade students. The class is nine weeks long and meets for 30 minutes each day. Topics discussed include personal responsibility, family life, communication and study skills, sewing, nutrition, kitchen safety, and cooking. The class is project oriented.

Teen Life: (Grade 8)

9 weeks

This course is a continuation of the introductory course to Family and Consumer Science offered in 7th grade. The class is nine weeks long and meets for 30 minutes each day. Teen Life 8 builds on the study, communication, sewing, and cooking skills learned in 7th grade before moving on to career goals, consumer responsibilities, and personal finance. The class is project oriented.

FOREIGN LANGUAGES

Introduction to Foreign Language: (Grade 7)

9 weeks each

Introduction to French and **Introduction to Spanish** are scheduled for nine weeks each to provide the students an opportunity to make an informed choice of a future foreign language. Students are taught more through the use of word phrases and dialogues than through grammatical concepts. Students will develop a knowledge of geography and of different customs of the respective French and Spanish-speaking countries.

Note: Students wishing to take French I or Spanish I in 8th grade must be recommended for the course based on, but not limited to, an A-average in **each** of the English, Reading, and French & Spanish Intro classes, Proficient or Advanced PSSA scores, and strong student ability.

French I: (Grade 8)

Full Year Course

Students at this level work with a basic vocabulary and basic grammar in the areas of speaking, listening, writing, and reading. Students work more with French culture and are expected to acquire good pronunciation habits.

Note: This course does not count towards District graduation requirements

Spanish I: (Grade 8)

Full Year Course

This course introduces students to the Spanish language through practice of the four language skills: reading, listening, writing, and speaking. Grammatical concepts are emphasized in the teaching and the use of the four skills. Throughout the year students will develop an awareness of the different customs of the Spanish-speaking countries as well as develop knowledge of geography.

Note: This course does not count towards District graduation requirements

HEALTH and PHYSICAL EDUCATION

Health: (Grade 7)

9 weeks

This curriculum is organized into ten specific areas: health and wellness; personal health; social health; drug education; disease prevention and control; human growth and development; the body's system; nutrition; first-aid and safety; and character education. Students participate in self-inventories, class activities, and projects that help them learn how to make healthy choices in their daily lives.

Physical Education: (Grades 7 & 8)

9 weeks

The 7th and 8th grade physical education course stresses skill development and knowledge or rules for a variety of individual and team activities and lifetime sports. This course involves the students in overall fitness development along with emphasizing the importance of enthusiasm, participation and safety.

MATHEMATICS

7th Grade Math Topics: (Grade 7)

9 weeks

This course is based on the 7th grade Pennsylvania Core Standards to prepare students for future algebra-based understandings. Students will explore geometric figures, measurement, and probability. This course is designed to provide students with more individualized help on these topics, in addition to preparation for the 7th grade PSSA.

Academic Math: (Grade 7)

This course is based upon the 7th grade Pennsylvania Core Standards to prepare students for future algebra-based understandings. The course begins with basic algebraic reasoning and rational numbers through solving equations and inequalities. Students will explore proportional relationships, graphing and analyzing data, percentages, geometric figures, measurement, and probability.

Pre-Algebra: (Grade 7)

This course is based upon 7th grade PA core standards to prepare students for future algebra-based understandings. The course will explore algebra reasoning and rational numbers through solving equations and inequalities. Students will explore proportional relationships, graphing and analyzing data, percentages, geometric figures, measurement, and probability. This class is an accelerated pace to review 7th grade PA core concepts and cover some 8th grade PA core concepts to move to the Algebra I course.

8th Grade Math Topics: (Grade 8)

9 weeks

This course is based on the 8th grade Pennsylvania Core Standards to prepare students for future algebra-based understandings. Students will explore the Pythagorean theorem, transformations, formulas for space figures, scatter plots, and two-way tables. This course is designed to provide students with more individualized help on these topics in addition to preparation for the 8th grade PSSA.

Intro to Algebra: (Grade 8)

Students will be continuing number reasoning skills, building into irrational numbers and exponential expressions. Algebraic concepts will build into using the Pythagorean Theorem, solving linear equations and systems of equations, and graphing functions. Geometry will cover transformations, formulas for space figures. Data analysis work includes scatter plots and two-way tables. Calculators will be used as needed. Most students will move to Practical Algebra Course I in 9th grade.

Pre-Algebra: (Grade 8)

Students will be continuing number reasoning skills, building into irrational numbers and exponential expressions. Algebraic concepts will build into using the Pythagorean Theorem, solving linear equations and systems of equations, and graphing functions. Geometry will cover transformations, formulas for space figures and cross sections. Data analysis work includes scatter plots and two-way tables. Students in this class are preparing to move to the Algebra I course.

Algebra I: (Grade 8)

Students will be preparing for the Algebra I Keystone Exam to be taken near the end of the course. Students will be focusing on solving linear equations, inequalities and systems of equations and inequalities; identifying and graphing functions; linear regression; basic factoring techniques; simplifying radical and polynomial expressions; laws of exponents; data analysis, and probability. Calculators are permitted, but graphing calculators are not permitted. Students will be at an accelerated pace and working to move to Algebra II. **Note:** This course does not count towards District graduation requirements

READING

Reading: (Grade 7)

The 7th grade reading course provides for the development of vocabulary skills, reading comprehension and study skills. Students will be exposed to a variety of literature through oral and silent reading in class.

Reading: (Grade 8)

The 8th grade course continues the development of reading skills with emphasis on vocabulary skills and silent reading comprehension. Students will become familiar with the PA State Standards.

RESOURCE

Resource: (Grades 7-8)

Students with IEPs that are experiencing some difficulty in a particular area come to the resource room. In the resource room instruction is tailored to meet specific needs. It may include support in regular classroom work, remediation of perceptual deficits and basic compensation skills.

SCIENCE

Science: (Grade 7)

This science course addresses the major sub-disciplines including biology, ecology, and physics. The scientific method, the use of the metric system, and the use of appropriate lab equipment are developed and refined through a variety of hands-on activities and labs that complement each unit of study.

Science: (Grade 8)

This course builds on 7th grade understanding and is aligned to PA Core Standards in order to prepare students for high school level sciences. The integrated science curriculum includes foundational topics in the physical (physics/chemistry), earth, and space sciences, while applying the nature of science throughout each unit. Biological science content will be reviewed as students prepare for the 8th Grade Science PSSA to be taken near the end of the course.

SOCIAL STUDIES

Social Studies: (Grade 7)

This year long course will begin with an introduction to the five themes of geography and progress into an examination of the social, political, and economic reasons for the age of exploration and European colonization of the Americas and the development of the United States and Pennsylvania.

Social Studies: (Grade 8)

This course introduces students to fundamental themes and trends in American History from the American Revolution through the Civil War Era. The course deals with issues of unity and diversity in American society, historical debates and conflicts, civics, and government. This course will have extensive reading, writing, researching, and public speaking components. Course assignments aim at developing students' research ability and the ability to think and write critically and historically.

TECHNICAL EDUCATION

Exploring Technology: (Grade 7)

9 weeks

The students will be introduced to the fundamentals of design and technology during the first 2 weeks of the class. Students will have the opportunity to use various tools and equipment in this class from modern woodworking machinery to Laser Engraving technology. Measurement and safety throughout the class is greatly emphasized. Students will produce a working gumball machine using engineering and manufacturing Skills learned throughout the 9 weeks.

Creating Technology: (Grade 8)

9 weeks

This course introduces students to the technological family of transportation. Students will brainstorm, design, produce, test and analyze a CO2 powered dragster in order to understand and expand their horizons into specific engineering content. Students will be exploring content in relation to 3D parametric design in SolidWorks, Newton's Laws on Motion, aerodynamics, surface and fluid friction, CNC Toolpath creation, CNC machining, flow simulations and other transportation related areas. Students will race each other in a bracket style competition in order to determine who has designed and produced the fastest CO2 powered dragster.

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