# CCHS EDUCATIONAL PLANNING GUIDE 2020-2021

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# CEDAR CREST HIGH SCHOOL





## CORNWALL-LEBANON SCHOOL DISTRICT 717-272-2031

Dr. Philip Domencic	Superintendent
Dr. Mike Robinson	Director of Secondary Education
Dr. Tracie L. M. Clemens	Director of Elementary Education
Mrs. Jean Hentz	Director of Business Affairs

## **CEDAR CREST HIGH SCHOOL ADMINISTRATION**

https://www.clsd.k12.pa.us 717-272-2033

Dr. Nicole Malinoski	Principal
Dr. Barbara May	Assistant Principal
Mr. John Shaffer	Assistant Principal
Mr. Rob Snyder	-
Mr. Christopher Groff	

## CEDAR CREST HIGH SCHOOL COUNSELING DEPARTMENT

https://ccfalconcounseling.wixsite.com/cccounseling 717-389-1820

Mrs. Arlene Basford	School Counselor
Mr. Carlos Carmona	School Counselor
Mrs. Jennifer Knight	School Counselor
Mr. Stephen Thompson	School Counselor
Mrs. Diane Suhrbier	Psychologist/Learning Facilitator
Dr. Chris Greenawalt	Psychologist

# **Principal's Message**

This Educational Planning Guide has been prepared to give students and parents the opportunity to view the program of studies at Cedar Crest High School in total perspective. The academic program is designed to meet the varied needs of our student population. If the guide is to serve the student well, serious consideration and study must be utilized in making choices. The value of the Program of Studies is totally dependent on the effort put forth by each student in developing those understandings and skills that will build the foundation for a rewarding and satisfying future.

Dr. Nicole Malinoski, Principal Cedar Crest High School

# **From Your Counselors**

Students at Cedar Crest High School have the opportunity to plan and select individualized programs of study during their high school career. This Educational Planning Guide has been published to provide the students and their parents/guardians with information that will enable them to plan their educational programs. Included are the course offerings and descriptions, graduation requirements, and suggested educational plan. The course offerings provide for a solid base of academic study and also allow sufficient flexibility for students to elect courses based upon personal interest.

The Counselors advise that students and their parents/guardians read the guide carefully. We hope that the program selected is challenging, but not challenging beyond the student's potential for success. Decisions for course selection should be made with great care, keeping in mind the student's abilities, personal goals, general interests, and career aspirations.

Counselors are available to assist students and parents/guardians with questions concerning the curriculum or selecting a program of study. Eighth grade students consult with their middle school counselor with questions. High school students consult their alphabetically assigned counselor. Students in grades 9-12 with an IEP should consult with Mrs. Suhrbier.

We sincerely hope that this Educational Planning Guide will make course selection easier and provide a more rewarding experience.

Best wishes for a successful school year,

**Counseling Department** 

Cedar Crest High School

# **Course Changes**

After the start of the school year, if a student wishes to change a course due to academic difficulties, the following procedures must be followed:

- 1. Student has attempted to complete all assigned work.
- 2. Student has sought academic assistance from teacher.

3. Student has sought academic assistance from other resources such as MAS, peer tutors, private tutors, etc.

4. If these conditions have been met, the student may secure a "Request for Schedule Change" form from his/her counselor.

5. Student will meet with Dr. Malinoski for final review.

# **Guidelines For Credit Recovery**

Students who are recovering credits through an approved summer program must be finished with the course by August 1, 2020.

# **Promotion Policy**

Mrs. Jena Mable Social	Worker
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# **Equal Opportunity Statement**

The Cornwall-Lebanon School District is an equal opportunity education institution and will not discriminate against students or employees on the basis of race, color, national origin, sex and handicap in its activities, programs, or employment practices as required by Title VI, Title IX and Section 504.

For information regarding civil rights or grievance procedures, contact the Compliance Officer at 105 East Evergreen Road, Lebanon, Pennsylvania, 17042, (717) 272-2031. Step one of the complaint procedure requires written notification sent to the building principal. Step two requires written notification sent to the Compliance Officer.

Students must earn 4 credits (2 of which must come from core credit in English, Science, Math and Social Studies) to be promoted into 10th grade.

Students must earn 10 credits (6 of which must come from core credit in English, Science, Math and Social Studies) to be promoted into 11th grade.

Students must be eligible for graduation within their final school year to be promoted into 12th grade.

# **CCHS College in the High School Courses**

CCHS COURSE NAME	COLLEGE	COURSE NAME	PLACEMENT TESTING REQUIREMENT	2019-20 CREDIT AWARDED/ COST PER CREDIT
English Composition 101 CHS	HACC	English 101	Yes	3/\$75
College Algebra CHS	HACC	Math 103	Yes	3/\$75
AP Calculus AB CHS	HACC	Math 121	Yes	4/\$75
AP Statistics CHS	HACC	Math 202	Yes	4/\$75
World History 1 CHS	HACC	History 101		3/\$75
World History 2 CHS	HACC	History 102		3/\$75
Introduction to Human Biology CHS	HACC	Bio 111	Yes	3/\$75
AP Psychology CHS	PITT	PSY 0100		3/\$75
Western Civilization II CHS	PITT	HIST 0101		3/\$75
Argument CHS	PITT	COMMRC 500		3/\$75
Business Calculus CHS	PITT	MATH 0120	Yes	4/\$75
Spanish 1 CHS	PITT	SPAN 003	Yes	3/\$75
Computer Science Foundations 2 CHS	Harrisburg University	CISC 120		3/\$100
Introduction to Internet and Web Technologies CHS	Harrisburg University	MEBA 210		3/\$100
Web Technologies CHS	Harrisburg University	CISC 300		3/\$100
Discrete Mathematics CHS	Harrisburg University	MATH 210		3/\$100
Introduction to Information Systems CHS	Harrisburg University	ISIT 140		3/\$100

\* 2020-2021 tuition costs were not available at time of printing.

# **Exceptional Education Programs**

#### **Advanced Placement Courses**

Advanced Placement (AP) courses are available in a variety of curricular areas. Advanced Placement is a nationally accredited program of the College Entrance Examination board. All students enrolled in AP courses are required to take the AP exam in May. If both College in the High School and AP credit are offered, the student will have the choice between CHS, AP or both. Students are required to pay for the exam(s) at their own expense no later than November 1. If payment is not received, the student will be removed from the AP course and placed in an alternate class. In addition, students who do not complete/turn in summer reading assignments will be given a zero without an opportunity to make up the work. See course descriptions for more information. Students successful in the AP exams may receive college credits depending on the college or university that the students choose to attend. In addition, these courses will carry a 0.8 weight for ranking purposes.

Art History Biology Calculus AB Calculus BC Chemistry Computer Science A **Computer Science Principles** 

English Language English Literature Environmental Science European History Human Geography Macroeconomics Physics 1

Physics 2 Physics C Psychology Statistics **US** Government **US History** 

#### **Honors Courses**

Honors level courses are offered in many curricular areas in grades 9 through 12 and carry a weight of 0.4 for ranking purposes. Honors courses may require summer assignments and/or completion of an extended project.

## College in the High School

Cedar Crest High School, in conjunction with Harrisburg Area Community College (HACC), the University of Pittsburgh, and Harrisburg University, offers courses in which students earn college credit while satisfying the requirements for a high school diploma. These courses are offered on the Cedar Crest campus and are instructed by teachers employed by the Cornwall-Lebanon School District. Students enrolled in these courses are required to pay fees per course as determined by these institutions and must purchase class materials and books. Students will be billed directly by the corresponding institutions in early fall. Payment is the responsibility of the student. Tuition assistance is not available through the institutions nor the district. In order for students to participate in this program they must meet admission requirements set forth by HACC/Pitt and Harrisburg University and course prerequisites set forth by CCHS. College in the High School courses carry a weight of 0.8 for ranking purposes.

## Dual Enrollment

Dual Enrollment courses are those that are taken at an institution of higher learning, while a student is simultaneously enrolled at Cedar Crest High School. Credit is awarded both by the institution and by CCHS. Dual enrollment courses must be pre-approved by the building principal if high school credit is requested. Students may request no more than 1 high school credit (2 college courses) during the summer. Students may request no more than 2 high school credits (4 college courses) during the academic year. Students may earn no more than 8 CCHS toward GPA credits per year, not including summer credit. Dual enrollment credit is included in this maximum. Dual enrollment credit is offered to twelfth grade students only. Students are responsible for seeking out dual enrollment opportunities and meeting with Dr. Malinoski for final approval. Students are also responsible for enrolling in programs at their own expense.

# **HACC's Lebanon Campus Early College Pathway**

The Lebanon Early College Pathway with HACC allows qualified CCHS students to gain college credits through Advanced Placement (AP), HACC's College in the High School (CHS) and Dual Enrollment (DEHS) programs. Students simultaneously enroll in coursework that fulfills high school graduation requirements and associate degree requirements at HACC. This program results in significant savings in time and tuition for today's student.

ability. At the start of the student's enrollment in the Early College Pathway, this educational planning document will be used collaboratively with the high school counseling office and HACC's academic advising department. This dual advising relationship is key to the student's success in the program.

#### What is dual advising and why is it important?

To ensure maximum success, students should be advised both by HACC staff and

#### How can I get started with the Early College Pathway?

Consult with your high school counselor to see if the Early College Pathway is right for you.

#### How does the Early College Pathway work?

Each student's path at HACC may look different, depending on goals, skills and

the high school counseling office. This open, collaborative advising relationship can ensure that students are both selecting classes appropriate for HACC and suitable for application to high school graduation requirements.

For more information, contact the HACC Lebanon Campus at 717-270-4222.

#### **Eligible Student Services**

Classes are available for students who have been identified after an extensive diagnostic process as eligible and in need of special services. To the greatest extent possible and reasonable, eligible students remain in regular education with non-exceptional peers. Not all support courses are listed in this educational planning guide. Eligible students' course of study is determined by the IEP Team.

# **Special Scheduling Options for Seniors**

Cedar Crest High School is proud to offer different programming options for students in their senior year of high school. These options include Dual Enrollment, College in the High School, Emergency Medical Technician, Senior Option, Career and Technology Center, as well as internships and co-ops. Students are encouraged to focus on their future career aspirations and work closely with their school counselor and teachers to select a schedule that best fits their individual needs.

#### **DUAL ENROLLMENT**

A way to earn credit both CCHS and college classes at the same time. Students may seek these off campus or online opportunities.

#### COLLEGE IN THE HIGH SCHOOL

A way to earn credit for both CCHS and college classes at the same time. These courses are offered on campus during the regular school day.

#### EMERGENCY MEDICAL TECHNICIAN

One period, yearlong elective here at CCHS to earn an Emergency Medical Technician certification.

## SENIOR OPTION

Seniors in good standing may select 6.0 credits instead of 7.0. You may be excused from 1st or 8th period, or request a study hall.

## CAREER AND TECHNOLOGY CENTER

Numerous half and full day programs that offer professional training in career fields that are in demand.

## **CO-OP/INTERNSHIPS**

Co-Op students work part-time in a career field of choice while earning CCHS credit. Interns observe professional workers while learning valuable skills.

## **Senior Option**

The Senior Option is a privilege for twelfth grade students who are in good academic and discipline standing at the high school. Students who select and qualify for this option will be permitted to come to school after period 1, or leave after period 7, or take a study hall during the day, depending on when they are scheduled for this offering.

Students who select The Senior Option are not required to register for the full seven (7) credits of course work in grade 12. These students may register for between six (6) and six and one-half (6.5) credits their senior year. Seniors in this program must schedule a minimum of 6 courses each semester.

#### Student Requirements/Criteria for The Senior Option:

Successfully complete a minimum of 21 credits by the end of the junior year. Have a minimum cumulative grade point average (GPA) of 2.5. Have his/her own transportation to and/or from school. Administrative approval following a review of:

- a. student discipline,
- b. attendance records,
- c. completion of Project LIFE Schoology (grades 9 and 10 coursework)

Project LIFE for grades 11 and 12 must be completed by the end of Marking Period 1 of senior year in order to remain eligible for Senior Option.

\*\* Registering for The Senior Option and meeting the above requirements/criteria does not ensure admittance.

## Internship/Co-Op

Two courses in Cedar Crest High School's Business Department are designed to focus on assisting students with pursuing career exploration during the senior year. Future Professional's Internship is a one-credit, semester course that allows students to observe professional employees within the local community. Supervised Business Partnership is a three-credit full year course in which students will secure employment and work during the senior year. Both courses are described in detail under the Business Department section of this guide. Interested students should contact Mrs. Sullivan, the business department chair, as well as their school counselor to further discuss these career

# Lebanon County Career and Technology Center Program

# (CTC Program Descriptions are located on pages 18 & 19 of this Educational Planning Guide)

The programs at the Lebanon County Career and Technology Center are available for juniors and seniors at Cedar Crest High School. Depending on the career program chosen, students will attend the Career and Technology Center on a part-time or half-time basis during their junior or senior years or will attend full-time during their senior year only. Transportation is provided for all students. Below are listed the programs available at the Lebanon County Career and Technology Center.

#### Half Day Junior Year, Full Day Senior Year

Year One - PM - 11:35 a.m. – 2:10 p.m. Year Two - Full Day - 8:05 a.m. – 2:10 p.m

Cosmetology

#### Half Day Junior Year, and Half Day Senior Year

Year One - AM - 8:05 a.m. - 10:40 a.m. Year Two - PM - 11:35 a.m. - 2:10 p.m.

Auto Body Technology Automotive Technology Carpentry/Residential Construction Computer Repair Technology

**Diesel Truck Technology** 

Electrical Technology

Electromechanical Technology

Industrial Machine Technology

Law Enforcement and Security,

Masonry Medical Assistant Network Technology Plumbing/Heating/Air Conditioning Welding Technology

#### **Full Day Senior Year**

Full Day Senior Year - 8:05 a.m. - 2:10 p.m.

Commercial Art and Design Culinary Arts Dental Assistant Health Careers Technology Landscape Technology Media Communications Technology Pastry Arts Sports Therapy Sciences

## **CTC Enrollment Information**

Official CTC "Enrollment Date Forms" are required at the same time as Cedar Crest Course Registration forms. If a program is not filled by March 1, Enrollment Date Forms are accepted on a first come basis until the program is filled. Subsequent requests are maintained on a first come waiting list and accommodated if openings occur.

Cedar Crest's selection of students is competitive in nature; many factors are used to determine qualification. Students must complete all required application forms by deadlines set forth by the Cedar Crest Counseling Office. Failure to do so will jeopardize the student's chances of admission to CTC.

If applications exceed space on March 1, a program quota is implemented. Each district's quota is determined by a standard formula. Each district's applicants are then selected by a lottery to fill the quota. Quotas not filled by one district are applied to remaining districts on an equal basis. I.E.P., Special Populations or At-Risk students can be enrolled one year prior to the approved schedule permitting that there are available spaces in the program. At-risk students must complete a learning contract.

exploration-based scheduling options during the senior year.

# Partnership Programs with Colleges through CTC

Students who successfully complete an LCCTC program may receive advanced post secondary credits or advanced standing through Tech Prep articulations, saving both time and money. For more information about these post secondary partnerships, please contact the LCCTC Guidance Office at 273-8551 ext. 2125.

# NCAA eligibility requirements

# Approved courses

American Lit 11 CP AP Lang & Comp AP Lit & Comp Argument CHS **Creative Writing** English 10 CP English 10 Hon A English 10 Hon B English 11 CP English 11 Hon English 11 Hon 1 English 11 Hon II English 11 Keystone English 11 A Hon English 11 B Hon English 12 Hon English 12 A CP English 12 B CP British Lit English 12 B CP Modern Lit English 12 B CP Speech English 12 CP English 9 CP English 9 Hon English Composition 101 CHS **English Composition 102** Great Books Honors Classical Studies Lit & Comp 10 CP Lit & Comp 10 Hon Lit Foundations 10 CP Lit Foundatsion 10 Hon Modern Lit 11 CP Romantic Era Lit 11 CP Speech Hon

Amer Cult 1 CP Amer Cult 1 Hon Amer Cult 2 CP Amer Cult 2 Hon **AP European History** AP Human Geography **AP Macroeconomics** AP Psychology CHS AP US Government AP US History AP US Macro Econ **Economics Hon Economics CP** Government CP Government Hon Intro to Global Studies CHS Psychology Sociology Western Civlztn II CHS World Cultures CP World Cultures Hon World Cultures Eastern CP World Cultures Eastern Hon World Cultures Western CP World Cultures Western Hon World History I CHS World History II CHS Algebra 1 CP Algebra 2 CP Algebra 2 Hon Algebra 3 CP Algebra I Honors AP Calculus AB CHS AP Calculus BC **AP Statistics CHS Business Calculus CHS** Calc Intro CP Calculus + Calculus Hon College Algebra CHS Geometry CP Geometry Hon Math Survey Pre-Calculus Pre-Calculus Hon Statistics CP Trigonometry CP Advanced Biology Topics AP Biology

# NCAA ELIGIBILITY CENTER QUICK REFERENCE GUIDE





# NCAA Division I Initial-Eligibility Requirements

## Core Courses: (16)

- Initial full-time collegiate enrollment *before* August 1, 2016:
- Sixteen (16) core courses are required (see chart below for subject-area requirements).
- Initial full-time collegiate enrollment <u>on or after</u> August 1, 2016:
  - Sixteen (16) core courses are required (see chart below for subject-area requirements).
    - Ten (10) core courses completed before the seventh semester; seven (7) of the 10 must be in English, math or natural/physical science.
      - These courses/grades are "locked in" at start of the seventh semester (cannot be repeated for grade-point average [GPA] improvement to meet initial-eligibility requirements for competition).
  - Students who do not meet core-course progression requirements may still be eligible to receive athletics aid and practice in the initial year of enrollment by meeting academic redshirt requirements (see below).

## Test Scores: (ACT/SAT)

- Students must present a corresponding test score and core-course GPA on the sliding scale (see Page No. 2). SAT: critical reading and math sections.
  - Best subscore from each section is used to determine the SAT *combined* score for initial eligibility.
  - ACT: English, math, reading and science sections.
  - Best subscore from each section is used to determine the ACT sum score for initial eligibility.
  - All ACT and SAT attempts before initial full-time collegiate enrollment may be used for initial eligibility.
- Enter 9999 during ACT or SAT registration to ensure the testing agency reports your score directly to the NCAA Eligibility Center. Test scores on transcripts will not be used.

## **Core Grade-Point Average:**

- Only core courses that appear on the high school's List of NCAA Courses on the NCAA Eligibility Center's website (www.eligibilitycenter.org) will be used to calculate your core-course GPA. Use this list as a guide.
- Initial full-time collegiate enrollment *before* August 1, 2016:
  - Students must present a corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.000) on Sliding Scale A (see Page No. 2).
  - Core-course GPA is calculated using the **best 16 core courses** that meet subject-area requirements.
- Initial full-time collegiate enrollment *on or after* August 1, 2016:
  - Students must present a corresponding test score (ACT sum score or SAT combined score) and core-course 0 GPA (minimum 2.300) on Sliding Scale B (see Page No. 2).
  - Core-course GPA is calculated using the **best 16 core courses** that meet both progression (10 before seventh semester; seven in English, math or science; "locked in") and subject-area requirements.

## **DIVISION I**

- **Core-Course Requirement (16)**
- 4 years of English
- 3 years of math (Algebra I or higher)
- years of natural/physical science 2 (1 year of lab if offered)
- year of additional English, math or 1 natural/physical science
- years of social science 2
- 4 years of additional courses (any area above, foreign language or comparative religion/philosophy)

#### **DIVISION I – 2016 Qualifier Requirements** \*Athletics aid, practice, and competition

- 16 core courses
- Ten (10) core courses completed before the start of seventh semester. Seven (7) of the 10 must be in English, math or natural/physical science.
  - "Locked in" for core-course GPA calculation.
- Corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.300) on Sliding Scale B (see Page No. 2).
- Graduate from high school.

# **DIVISION I – 2016**

**Academic Redshirt Requirements** \*Athletics aid and practice (no competition)

- 16 core courses
  - o No grades/credits "locked in" (repeated courses after the seventh semester begins may be used for initial eligibility).
- Corresponding test score (ACT sum score or SAT combined score) and core-course GPA (minimum 2.000) on Sliding Scale B (see Page No. 2).
- Graduate from high school.

AP Chemistry AP Physics AP Physics C AP Physics I AP Physics II Astronomy Astronomy 1 Astronomy 2 **Biology 2 CP** Biology CP **Biology Hon** 

Chemistry 1 CP Chemistry 1 Hon Chemistry 2 Hon Deep Space Astronomy Geology Intro Human Biology CHS Meteorology Oceanography Physical Science CP Physical Science Hon Physics 2 CP

Physics CP Physics Hon Prin of Physics Senior Chemistry CP French 1 French 2 French 3 Hon French 4 Hon German 1 German 2 German 3 Hon

German 4 Hon Latin 1 Latin 2 Latin 3 Hon Latin 4 Hon Spanish 1 Spanish 1 CHS Spanish 2 Spanish 2 Hon Spanish 3 Hon Spanish 4 Hon

# **Choose A Career Academy**

Select an academy based on your interests and abilities.

If you are still in the exploration stage of your career planning, use the bottom of this page as a worksheet to determine your current career academy.

Go through each Career Academy and circle/highlight those careers in which you have an interest. Wherever you have chosen the most possible careers, use that category as your career academy to select courses and program electives this year.

## **Business**

Career Choice Examples (See Career Academy for course requirements) May Require 4-year College Degree Accountant/Auditor/Actuary Advertising/ Marketing **Budget Analyst Business Analyst** Computer Programmer Consultant Economist Finance/ Financial Planner General Manager/ Chief Exec. Hospital Administrator Hotel/Motel Manager Human Resource Mgr. Information Specialist **International Business** Labor/Personnel Mgr. Marketing Office Info. Systems Purchasing/Contract Mgr. May Require 2-year Postsecondary Education/Training Accounting/Bookkeeping Administrative & Secretarial Banking/Financial Services **Business Systems/Networking** Caterer **Computer Repair Technician** Court Reporter Data Processing Entrepreneur Executive Assistant Fashion Merchandising Hospitality/Administration Mgr. Legal Secretary Management Info. Systems Medical Admin. Secretary Paralegal **Retail Sales** Travel-Tourism Specialist May Require High School Training and/or Special Certificate Training Administrative Assistant **Banking & Financial Services Billing Clerk Brokerage Clerk Computer Operator** Data Processing Entrepreneur File Clerk/Records Mgt. Information Processing Insurance & Risk Mgt. Receptionist Legal Secretary New Accounts Clerk Payroll Clerk Real Estate

# Communications/

Arts Career Choice Examples (See Career Academy for course requirements) May Require 4-year College Degree

Actor Advertising Architect Art History Arts Management **Broadcast Journalist** Ceramic Arts & Ceramics Choreographer Composer/Arranger **Creative Writer** Dancer Editor/Publisher Fashion Design & Illustrator **Film Studies** Graphic Design, Comm. Art Journalist **Music Conducting** Music Director **Music Performance** Musician Producer/Director **Public Relations Specialist** Radio and TV Newscaster Reporter **Technical Theater** Theater Design & Stagecraft May Require 2-year Postsecondary Education/Training Camera Operator, Movie & TV Cartoonist **Commercial Photographer** Design & Applied Arts Fashion Merchandising **Graphic Artist** Interior Design Makeup Artist Metal & Jewelry Arts Printmaker Sculpture **Television Technician** May Require High School Training or Special Certificate Training **Career Apprenticeships** Crafts, Folk Art & Artisanry Photographer Platemaker Printer Special Events Planner

## Engineering, Physical Sciences & Applied Technology

Career Choice Examples (See Career Academy for course requirements) May Require 4-year College Degree Actuary Aerospace/Aeronautical Engineer Aircraft Pilot Architect Biochemist **Chemical Engineer Computer Engineer Computer Programmer Electrical Engineer Environmental Engineer Forensic Scientist** Geologist Industrial Engineer **Mechanical Engineer** Meteorologist Pharmacist Physicist/Chemist Secondary Science Teacher May Require 2-year Postsecondary Education/Training Apparel Pattern Maker **Broadcast Technician** CAD Operator **Chemical Engineering Technician Civil Engineering Technician Computer Technician** Dental Laboratory Technician Industrial Engineering Technician Inspector, Tester, Grader Laser Technician Machinist Mechanical Engineering Technician Musical Instrument Repair **Pollution Control Technician** May Require High School Training or Special Certificate Training Auto Body Technician Automotive Technician Carpenter Cost Estimator **Diesel Mechanic** Drywall Installer Electrician Heavy Equipment Operator Landscape Assistant Machine Operator Mason Plumber/Heating/AC

# Health, Agricultural and Life Sciences

Career Choice Examples (See Career Academy for course requirements) May Require 4-year College Degree

Agronomist Art Therapy Athletic Trainer **Biological Scientist** Botanist Chiropractor **Conservation Scientist Dairy Science** Dentist Dietician Environmentalist Forester Geneticist Horticulturist Marine Biologist Medical Technologist Music Therapy **Occupational Therapist** Optometrist Pharmacist Physician Physician Assistant **Physical Therapist** Psychiatrist **Registered Nurse** Social Worker Soil Science Surgeon Veterinarian May Require 2-year Postsecondary Education/Training **Dental Assistant Dietary Aide** Dialysis Technician **EEG** Technician **EKG** Technician Emergency Medical Tech. (EMT) Licensed Practical Nurse **Physical Therapy Assistant** Radiation Therapy Technician **Respiratory Therapist** May Require High School Training or Special Certificate Training Animal Caretaker Child Care Aide/Worker Home Health Aide Nurse Aide/Orderly **Pharmacy Assistant** Veterinary Assistant

# Human and Public Services

Career Choice Examples (See Career Academy for course requirements)

May Require 4-year College Degree Anthropologist Coach

College/University Faculty Clergy Criminologist Drug and Alcohol Counselor Early Childhood Educator **Elementary Teacher** FBI Agent Historian Law Enforcement Officer Lawyer/Judge Librarian **Music Careers** Physical Education Teacher Psychologist School Counselor Secondary Teacher Special Education Teacher Sociologist Speech/Language Pathologist May Require 2-year **Postsecondary Education/Training** Air Traffic Controller Chef Child Care Director Flight Attendant Food Service Manager Hotel/Motel Manager Police Patrol Officer Public Safety & Correction Mgr. Social Director May Require High School Training or Special Certificate Training Baker Barber **Bus Driver** Caterer Child Care Worker **Cleaning Service Worker Counter Clerk** Firefighter Hairdresser/Cosmetologist Prep Cook **Recreation Worker Restaurant Attendant** Sanitation Worker Security Guard Special Events Planner

Road Worker

Roofer

Welder

# **Career Academy: Business**

• All students must take seven (7) credits each year. Number in parentheses equals number of credits.

Grade 10 

Chemistry....... (1) Social Studies.....(1)

Physical Education ..... (.5)

Health...... (.5) Family & Consumer Sciences Dept.....(.5) Program Electives .....(1)

Free Elective.....(.5) TOTAL ......(7)

#### Grade 9

0.0000
English 9 (1)
Math (1)
Biology(1)
American Cultures or AP U.S. History (1)
Physical Education (.5)
Art Foundation or Music(.5)
Business & Career Development, DIY Home Im-
provement <b>OR</b> Introduction to Technology and
Problem Solving(.5)
Program Electives(1)
Free Elective(.5)
TOTAL(7)

## **Program Electives**

#### (Check for Prerequisites)

World Language is highly recommended for college-bound students. All music performance courses may be considered program electives.

Accounting 1, 2 (1 each) Adv. Computer Science Topics Hon (.5) Advertising (.5)

American Pop Culture (.5) American History Through Film (.5) AP Computer Science A (1) AP Computer Science Principles (1) AP Macroeconomics (1) AP Psychology CHS (1) AP Statistics CHS (1) AP US Government and Politics (1) Argument CHS (.5) Broadcast Video Prod. 1 (.5) Business Management (.5)

ALICE: Prog Animation, 3D (.5)

Business/Personal Law (1) Business/Personal Leadership (.5) Commercial Art (.5) Computer Literacy Basics (.5) Computer Science Foundations 1 (.5) **Computer Science Foundations 2** CHS (.5) Discrete Math CHS (.5) Economics (.5) English Composition 101 CHS (.5) Entrepreneurship (.5) Foundations of Business 1, 2 (.5)

Glade 11	
English 11	(1)
Math	(1)
Science	(1)
Social Studies	(1)
Physical Education	(.5)
Program Electives	(2)
Free Elective	(.5)
TOTAL	(7)

Grade 11

French 1. 2. 3. 4 (1 each) Future Prof Internship (1) German 1, 2, 3, 4 (1 each) Graphic Design (.5) History of Philosophy (.5) Hospitality and Tourism (.5) Housing & Int. Design (.5) Humanities (1) International Business (.5) International Relations (.5) Intro to Information Systems CHS (.5) Intro to Internet, Web Technologies CHS (.5)

Grade 12	
English 12	(1)
Government	(.5)
Program Electives	(4.5)
Free Elective	(1)
TOTAL	(7)

Latin 1, 2, 3, 4 (1 each) Marketing (.5) Microsoft Office CORE (.5) Microsoft Office EXPERT (.5) Psychology (.5) Saving, Investing, Finan. Dec. (.5) Sociology (.5) Spanish 1, 2, 3, 4 (1 each) Speech Hon (.5) Student IT Clever Desk 1 (.5) Student IT Clever Desk 2 (.5) Student IT Clever Desk 3 (.5) Student IT Clever Desk 4 (.5)
Supervised Business Part (3) Visual Communications 1, 2, 3 (.5 each) Website Technologies CHS (.5)

# **Career Academy: Communication and the Arts**

• All students must take seven (7) credits each year. Number in parentheses equals number of credits.

American Pop Culture (.5)

AP European History (1)

AP Lang. & Composition (1)

AP US Government and Politics (1)

Arch Drafting CADD 1, 2 (.5 each)

Broadcast Video Prod. 1 (.5)

Broadcast Video Prod. 2,3 (1 ea)

AP Lit. & Composition (1)

AP Macroeconomics (1)

AP Psychology CHS (1)

Argument CHS (.5)

Artisan Crafts (.5)

AP Art History (1)

#### Grade 9

English 9	(1)
Math	(1)
Biology	(1)
American Cultures or AP U.S. History	(1)
Physical Education	. (.5)
Art Foundation or Music	(.5)
Business & Career Development, DIY Home	
provement <b>OR</b> Introduction to Technology	and
Problem Solving	(.5)
Program Electives	(1)
Free Elective	(.5)
TOTAL	(7)

## **Program Electives**

(Check for Prerequisites)

World Language is highly recommended for college-bound students. All music performance courses may be considered program electives. Accounting 1, 2 (1 each) Advanced Pottery 2 & 3 (.5) Adv. Studio Art (.5) American History through Film (.5)

English 10	(1)
Math	(1)
Chemistry	
Social Studies	(1)
Physical Education	(.5)
Health	(.5)
Family & Consumer Sciences Dept	(.5)
Program Electives	(1)
Free Elective	(.5)
TOTAL	(7)

Grade 10

Business/Personal Law (1) Classical Worlds (.5) Comm Art & Design (.5) Contemporary Film Analysis (.5) Contemporary Mixed Media (.5) Creative Writing (.5) Critical Analysis TV (.5) DIY Home Improvement (.5) Drawing and Comp (.5) Economics (.5) English Composition 101 CHS (.5) Entrepreneurship (.5) Foods (.5) French 1, 2, 3, 4 (1 each)

#### Grade 11

	0.0.0 ==	
. (1)	English 11	(1) I
. (1)	Math	
. (1)	Science	(1)
(1)	Social Studies	(1)
(.5)	Physical Education	(.5)
(.5)	Program Electives	(2)
.(.5)	Free Elective	(.5)
(1)	TOTAL	(7)

Future Prof Internship (1) German 1, 2, 3, 4 (1 each) Graphic Design (.5) History of Philosophy (.5) Housing & Int. Design (.5) Humanities (1) International & American Cuisine (.5) International Relations (.5) Introduction to Mass Media (.5) Latin 1, 2, 3, 4 (1 each) Marketing (.5) Microsoft Office CORE (.5) Microsoft Office EXPERT(.5) Music Theory (.5) Newspaper Production (1) Painting (.5)

#### Grade 12

Full-Day CTC
Commercial Art, Media Communication, Culi-
nary Arts, Pastry Arts
OR
English 12(1)
Government(.5)
Program Electives(4.5)
Free Elective(1)
TOTAL(7)

Photography 1, 2 (.5 each)				
Polymers & Plastics Technology (.5)				
Pottery (.5)				
Psychology (.5)				
Saving, Investing, Finan. Dec. (.5)				
Sculpture (.5)				
Sociology (.5)				
Spanish 1, 2, 3, 4 (1 each)				
Speech Hon (.5)				
Theatre Arts (.5)				
Visual Comm 1, 2, 3 (.5 each)				
Website Technologies CHS (.5)				
Western Civilization II CHS (1)				
World History 1, 2 CHS (.5 each)				
Yearbook Production (1)				

# Career Academy: Engineering, Physical Science, Applied Technology

Engli Math Scien

Socia

• All students must take seven (7) credits each year. Number in parentheses equals number of credits.

rade 10
(1) (1) (1) (1) (1) (5) (5) Sciences Dept(5) (1) (5) (7)

AP Biology (1)

AP Chemistry (1)

AP Physics 1 (1)

AP Physics 2 (1)

AP Physics C (1)

AP Statistics CHS (1)

AP Computer Science A (1)

AP Human Geography (1)

AP Macroeconomics (1)

AP Computer Science Prin. (1)

AP Envrionmental Science (1)

AP US Government and Politics (1)

Grade 11	Grade 12
ish 11 (1)	Full-Day CTC
h	Landscape Tech
nce(1)	OR
al Studies	English 12(1)

## **Program Electives**

#### (Check for Prerequisites)

World Language is highly recommended for college-bound students. All music performance courses may be considered program electives. Accounting 1, 2 (1 each)

Adv. Comp. Science Topics Hon (.5) Advanced Topics in Biology (.5) Agriscience Tech 1, 2, 3, 4 (1 each) ALICE: Prog Animation, 3D (.5)

Arch Drafting CADD 1, 2 (.5 each) Argument CHS (.5) Astronomy (.5 each) Broadcast Video Prod. 1 (.5) Chemistry 2 Hon (1) Comp. Science Foundation 1 (.5) Comp. Science Foundation 2 CHS (.5) Deep Space Astronomy (.5) Discrete Math CHS (.5) DIY Home Improvement (.5) Economics (.5) Eng. Design 1, 2, 3 (.5 each)

TOTAL(7)	
Free Elective(.5)	
Program Electives(2)	
Physical Education(.5)	

TOTAL	(7)
Free Elective	(1)
Program Electives	(4.5)
Government	(.5)

Elec/Small Engine (.5) English Composition 101 CHS (.5) French 1, 2, 3, 4 (1 each) Future Professional Internship (1) Geology (.5) German 1, 2, 3, 4 (1 each) Graphic Design (.5) Housing & Int. Design (.5) Intro to Human Biology CHS (.5) Intro to Information Systems CHS (.5) Intro to Internet, Web Technologies CHS (.5) Latin 1, 2, 3, 4 (1 each) Meteorology (.5) Microsoft Office CORE (.5)

Microsoft Office EXPERT (.5) Oceanography (.5) Photography 1, 2 (.5 each) Physics 2 CP (.5) Polymers & Plastics Technology (.5) Spanish 1, 2, 3, 4 (1 each) Speech Hon (.5) Student IT Clever Desk 1 (.5) Student IT Clever Desk 2 (.5) Student IT Clever Desk 3 (.5) Student IT Clever Desk 4 (.5) Technology Seminar (.5) Thinking Green (.5) Visual Comm. 1, 2, 3 (.5 each) Web Technologies CHS (.5) Wood 1, 2, 3 (.5 each)

**CAREER ACADEMIES** CONTINUED ON PAGE 8

# Career Academy: Health, Agricultural, Life Sciences

• All students must take seven (7) credits each year. Number in parentheses equals number of credits.

Grade 10

English 10......(1)

Math ......(1)

Social Studies......(1)

Physical Education .....(.5)

Health (.5)

Family & Consumer Sciences Dept.....(.5)

Program Electives .....(1)

#### Grade 9

## **Program Electives**

- (Check for Prerequisites)
- World Language is highly recommended for college-bound students. All music performance courses may be considered program electives. Accounting 1, 2 (1 each) Advanced Fitness 1 (.5) Advanced Fitness 2 (.5)
- Advanced Fitness 3 (.5) Advanced Health Topics (.5) Advanced Topics in Biology (.5) Ag Sci Tech 1, 2, 3, 4 (1 each) AP Biology (1) AP Chemistry (1) AP Environmental Science (1) AP Macroeconomics (1) AP Physics 1 (1) AP Physics 2 (1) AP Physics C (1)

AP Psychology CHS (1) AP US Government and Politics (1) Argument CHS (.5) Biology 2 CP (1) Business/Personal Law (1) Chem 2 Hon (1) Drawing and Comp (.5) Economics (.5) Elec./Sm. Engines (.5) EMT (1) English Composition 101 CHS (.5) Foods (.5) French 1, 2, 3, 4 (1 each) Future Professional Internship (1) German 1, 2, 3, 4 (1 each) International & American Cuisine (.5) Intro to Human Biology (.5) Latin 1, 2, 3, 4 (1 each) Lifeguarding (.5) Lifetime Activities (.5) Microsoft Office CORE (.5)

Grade 11

Social Studies......(1)

Physical Education .....(.5)

Program Electives .....(2)

Free Elective.....(.5)

TOTAL ......(7)

Grade 12

Full-Day CTC
Health Careers, Dental Assistant, Sports Thera-
py Sciences
OR
English 12(1)
Government(.5)
Program Electives(4.5)
Free Elective(1)
TOTAL(7)

Microsoft Office EXPERT (.5)
Net/Wall Games (.5)
Physics 2 CP (.5)
Physics Honors (1)
Psychology (.5)
Saving, Investing, Finan. Dec. (.5)
Sociology (.5)
Spanish 1, 2, 3, 4 (1 each)
Speech Hon (.5)
Thinking Green (.5)
Understanding Children (.5)
Welding and Concrete (.5)
CTC – Grade 11 or 12
Medical Assistant

• AgriScience and Technology 1-4: This course satisfies 3 credits of general electives within the Plant Science major.

AgriScience and Technology 1-4: This course satisfies 3 credits of restricted electives within the Agribusiness major.

## Agricultural Pennsylvania Skills Certificate Program Requirements

In addition to the career academy requirements, students interested in earning an Agricultural PA Skills Certificate are advised to follow this scope and sequence.

Grade 9 Biology Agriscience & Technology I Intro to Technology and Problem Solving Supervised Agriculture Experience Grade 10 Agriscience & Technology II Supervised Agriculture Experience

Grade 10

Math ......(1)

Chemistry...... (1) Social Studies...... (1)

Physical Education .....(.5)

Health...... (.5) Family & Consumer Sciences Dept.....(.5)

Program Electives .....(1)

 Grade 11 Geometry Agriscience & Technology III Electricity/Small Engines Supervised Agriculture Experience Grade 12 Agriscience & Technology IV Supervised Agriculture Experience Welding and Concrete

By completing the approved scope and sequence, students will have the opportunity to earn certifications in OSHA, pesticide education, serve safe food handler, and safe tractor driving. At the end of the program, students will complete the NOCTI exam in Agricultural Production as well as potentially earn articulation credits through specific universities.

# **Career Academy: Human and Public Services**

#### • All students must take seven credits each year. Number in parentheses equals number of credits.

Grade 9			
English 9 (1)			
Math (1)			
Biology(1)			
American Cultures or AP U.S. History (1)			
Physical Education(.5)			
Art Foundation or Music(.5)			
Business & Career Development, DIY Home Im-			
provement <b>OR</b> Introduction to Technology and			
Problem Solving(.5)			
Program Electives(1)			
Free Elective(.5)			
TOTAL(7)			

## **Program Electives**

(Check for Prerequisites) World Language is highly recommended for college-bound students. American History through Film (.5) American Pop Culture (.5) AP Art History (1) AP European History (1) AP Macroeconomics (1) AP Macroeconomics (1) AP US Government and Politics (1) Argument CHS (.5) Broadcast Video Prod. 1 (.5) Broadcast Video Prod. 2, 3(1 each) Business and Personal Leadership (.5) Business/Personal Law (1) Classical Worlds (.5) Economics (.5) EMT (1) English Composition 101 CHS (.5) Entrepreneurship (.5) Foods (.5) Foundations of Business 1, 2 (.5 each) French 1, 2, 3, 4 (1 each) Future Prof Internship (1) German 1, 2, 3, 4 (1 each) Graphic Design (.5) History of Philosophy (.5) Hospitality and Tourism (.5)

Humanities (1)

#### Grade 12

(1)
(.5)
(4.5)
(1)
(7)

Preschool Child (1) Psychology (.5) Saving, Investing, Finan. Dec. (.5) Sociology (.5) Spanish 1, 2, 3, 4 (1 each) Speech Hon (.5)

All music performance courses may be considered program electives.

Accounting 1, 2 (1 each) Advanced Fitness 1 (.5) Advanced Fitness 2 (.5) Advanced Fitness 3 (.5) Advanced Health Topics (.5) Lifeguarding (.5) Lifetime Activities (.5) Living on Your Own (.5) Microsoft Office CORE (.5) Microsoft Office EXPERT (.5) Music Theory (.5) Net/Wall Games (.5) Newspaper Production (1) Photography 1, 2 (.5 each)

International Relations (.5)

Latin 1, 2, 3, 4 (1 each)

Introduction to Mass Media (.5)

International & American Cuisine (.5)

#### Speccen (15)

Understanding Child (.5) Visual Comm. 1, 2, 3 (.5 each) Western Civilization II CHS (1) World History 1, 2 CHS (.5 each) Yearbook Production (1) **CTC - Grade 11 or 12** Cosmetology (3) (gr. 11) Law Enforcement & Security (3)

# **Course Listing Index**

#### AGRISCIENCE & TECHNOLOGY Page 10

Agriscience and Technology 1 Agriscience and Technology 2 Agriscience and Technology 3 Agriscience and Technology 4 Electricity/Small Engines Supervised Agricultural Experience (SAE) Welding and Concrete

## ART

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**Computer Applications** Computer Literacy Basics Microsoft Office Applications-CORE Microsoft Office Applications-EXPERT

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# FAMILY AND CONSUMER SCIENCES

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## MATHEMATICS

Pages 13-14 AP Calculus AB CHS **AP Calculus BC AP Statistics CHS** Algebra 1 A Algebra 1 B Algebra 1 C Algebra 1 CP A Algebra 1 CP B Algebra 1 Hon Algebra 2 Algebra 2 CP Algebra 2 Hon Algebra 3 CP **Business Calculus CHS Calculus Hon** College Algebra CHS Geometry Geometry CP **Geometry Hon** Keystone Math **Keystone Prep Math** Pre-Calculus CP **Pre-Calculus Hon** Statistics CP Trigonometry CP

#### **Computer Programming**

Advanced Computer Science Topics Hon ALICE: Programming Via Animation & 3D AP Computer Science A AP Computer Science Principles Computer Science Foundations 1 Computer Science Foundations 2 CHS Discrete Mathematics CHS Intro to Information Systems CHS Intro to Information Systems CHS Web Technologies CHS

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#### SCIENCE Page 15-16

Advanced Topics in Biology **AP Biology AP** Chemistry **AP Environmental Science** AP Physics 1 AP Physics 2 AP Physics C Astronomy Biology Biology 1 CP Biology 1 Hon Biology 2 CP Chemistry Chemistry 1 CP Chemistry 1 Hon Chemisry 2 Hon **Deep Space Astronomy** Geology Intro to Human Biology CHS **Keystone Prep Biology** Meteorology Oceanography Physics CP **Physics Hon** Physics 2 CP **Principles of Physics** Thinking Green: Connecting with the Environment

#### SOCIAL STUDIES Page 16-17

American History through Film American Popular Culture **AP European History** AP Human Geography AP Macroeconomics **AP Psychology CHS** AP U.S. Government & Politics AP U.S. History American Cultures American Cultures CP American Cultures Hon **Classical Worlds Economics CP Economics Hon** Government CP Government Hon History of Philosophy International Relations Psychology Sociology Western Civilization II CHS World Cultures Eastern World Cultures Western World Cultures Eastern CP World Cultures Western CP World Cultures Eastern Hon World Cultures Western Hon World History 1 CHS World History 2 CHS

#### TECHNOLOGY Pages 17

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# **Course Descriptions**

# Agriscience & Technology

#### AGRISCIENCE AND TECHNOLOGY 1 Full Year Course/1 Credit

Agriscience and Technology I explores the many facets of agriculture. Primary emphasis is placed on the study of small animal care, gardening, greenhouse work, and conservation as well as an introduction to other areas of agriculture. Other studies include the correct use of hand tools and various wood and metal projects.

#### AGRISCIENCE AND TECHNOLOGY 2 Full Year Course/1 Credit

In this course the studies include crop production with emphasis on the major crops found in the Lebanon area. Some aspects of animal agriculture, including horses and poultry, are presented. Shop work includes education involving power tools (ex. table saw, drill press), wood projects, electric arc welding, and other aspects of Agriscience. **Prerequisite:** Successful completion of Agriscience and Technology 1 or Teacher Waiver.

#### AGRISCIENCE AND TECHNOLOGY 3

Full Year Course/1 Credit

This course includes selection, growth, feeding, management, and marketing of animals such as dairy and beef. How crops can be used to complement the feeding of animals is covered. Shop work includes general plumbing skills, electric wiring, advanced welding and individual shop projects. **Prerequisite:** Successful completion of Agriscience and Technology 2 or Teacher Waiver.

#### **AGRISCIENCE AND TECHNOLOGY 4**

Full Year Course/1 Credit

This Agriscience course offers study in agribusiness management, including pesticide certification, swine production, marketing, and record keeping. In addition, students study the use of computers in agriculture and use the Ag computer system. Also included is advanced study in the animal and plant sciences. Agriculture mechanics includes advanced mechanics skills and individual projects. Senior Ag students are eligible to participate in an agriculture-related Co-op program. **Prerequisite:** Successful completion of Agriscience and Technology 3 or Teacher Waiver.

#### **ELECTRICITY/SMALL ENGINES**

(Grade 10,11,12) One Semester Course/.5 Credit This course will provide the student with the opportunity to learn basic electrical principles, safety, and codes. Electrical circuitry projects will be constructed to develop abilities in maintenance and repair of home wiring, proper selection and use of electrical tools and materials. Also, students will be provided with the opportunity to learn how to service and overhaul four-cycle gasoline engines. Instruction emphasizes engine operation, carburetion, ignition, compression, and maintenance.

# SUPERVISED AGRICULTURAL EXPERIENCE (SAE)

(Grade 9, 10, 11, 12) Full Year Course/.5 Credit SAE is a course on agricultural record keeping. Students will keep records on an approved agricultural project in an approved FFA record book. This course is designed to not only teach students about fundamentals in record keeping but is also designed to give them a real agricultural

#### ADVANCED STUDIO ART

(Grade 11, 12) One Semester Course/.5 Credit This course is designed for advanced art students with previous experience in studio art. It provides an opportunity for students to explore selected two-dimensional media, such as drawing, painting, printmaking, or mixed-media, at a more advanced level. This is a good course for students who have a deep personal interest in visual art and/or wish to pursue an art-related career. **Prerequisite:** Written approval from an art teacher along with earning a 70% or better in at least two visual art electives.

## AP ART HISTORY

(Grade 10, 11, 12) Full Year Course/ .5 Credit In this Advanced Placement (AP) course, students will explore visual artworks from the ancient times through modern society and across various cultures. The main goals include understanding the purpose and function of art, appreciating various processes used to create art, analvzing art in historical contexts, and developing higher order thinking skills through verbal and written communication about the arts. Instruction will reflect similar courses taught at the college level so that students have an opportunity to take and pass the AP Art History exam for college credit. Students are required to take the AP exam at the end of the course. Please note that this is not a studio based course; traditional hands-on art skills are not necessary. Approval from a social studies or art teacher is required to register for this course.

#### ART FOUNDATIONS

(Grade 9-10) One Semester Course/.5 Credit In this course, students will learn, know, and demonstrate the elements and principles of art through the creation of original artworks in a variety of media and through traditional classroom assessments. Artists and art movements from different periods will enhance and influence each unit of study. Art Foundations prepares students for upper level elective art courses and serves to fulfill the graduation requirement for the arts and humanities. It is the perfect course for beginning artists to build a foundation of basic art skills.

#### **ARTISAN CRAFTS**

(Grade 10,11,12) One Semester Course/.5 Credit Crafts include artistic traditions that encompass ancient art forms and modern techniques. In this course, students will explore crafting techniques with jewelry, basket-weaving, recycled materials, book-binding, quilting, and more. Both form and function will be considered and discussed in student work. Lab Fee: \$35 per student.

#### COMMERCIAL ART

(Grade 10,11,12) One Semester Course/.5 Credit There are many opportunities for artists to apply their creative skills and talents in the commercial world. This course covers the basics of graphic design, with additional exploration of illustration and several other commercial art fields. Both modern technologies (Adobe Illustrator, InDesign, and Photoshop) and traditional techniques (drawing, painting, collage, and mixed media) are used to solve visual problems encountered by commercial artists working in the world today. It is recommended that students are comfortable with their drawing skills before enrolling in this course.

#### CONTEMPORARY MIXED MEDIA

(Grade 10,11,12) One Semester Course/.5 Credit There is a constant search in the world of visual art to be new, different and cutting edge. In modern times, artists have broken tradition over and over again. Contemporary Mixed Media will review, practice, and introduce students to basic drawing, painting, collage and printmaking processes through various cross-discipline projects. This course will challenge students to apply traditional art skills and techniques in unconventional ways. Let your imagination run free as you develop your mixed media skills. It is recommended that students are comfortable with their drawing skills before enrolling in this course. tion. In this course, students will work with ink watercolor, tempera, and acrylic to create their own visual expressions. Both realism and abstraction will be explored as students learn techniques, vocabulary, and art styles throughout the semester. Skill development will be emphasized through the creation of several original paintings. It is recommended that students are comfortable with their drawing skills before enrolling in this course.

#### POTTERY

(Grade 10,11,12) One Semester Course/.5 Credit Hand-building techniques will be explored along with various types of sculpture. Both traditional and contemporary pottery will be studied as well as glazing and firing techniques.

#### SCULPTURE

(Grade 10,11,12) One Semester Course/.5 Credit This studio course will explore examples of sculpture throughout art history and focus primarily on figurative sculpture. Students will learn to construct a variety of sculptural forms including: the human skull, bust (head, neck and shoulders), free standing sculpture in the round (to be viewed from all directions), and relief carving. Students will become familiar with the skeletal and musculature systems of the human body as well as facial and body proportion. Different sculptural media such as clay, wood, and wire will be explored. Students will be introduced to several finishing options, as well, including: glazes, paints, and patinas. All skill levels welcome.

# Business

#### ACCOUNTING 1

(Grade 10, 11, 12) Full Year Course/1 Credit Accounting 1 will allow the student to build on basic math skills while learning overall accounting concepts, principles, and automated accounting procedures. This course is designed to help students learn how accounting relates to different careers, learn accounting terminology, and apply accounting procedures. Accounting 1 will provide students with an understanding of the accounting principles, cycle, and equation which are essential for success in other courses and in office careers.

#### ACCOUNTING 2

#### (Grade 11, 12) Full Year Course/1 Credit

This course is designed for the serious business student who would like to enhance his/her marketable business skills or for the student who wants to build a stronger foundation in business for college preparation. A review of Accounting 1 is followed by a more thorough understanding of the different phases of accounting. Departmentalized accounting and special adjustments as well as corporate accounting are just some of the topics covered in this advanced, honors-level course. The course will provide students with both manual and automated accounting procedures. **Prerequisite:** Successful completion of Accounting 1 with a B-or higher.

#### ADVERTISING

(Grade 10,11,12) One Semester Course/.5 Credit This project-centered course challenges students to learn the various ways that an idea, good, or service can be successfully promoted. From budget preparation to virtual advertising, students will learn the concepts, terms and principles that help guide organizations in this very competitive industry. Students in this class will be involved with real-life projects that will challenge them to apply their learning in order to become successful. of the nature and purpose of business management while developing the needed technical knowledge and skills. Students will be actively introduced to business management concepts and principles by managing their own business through the use of VIRTUAL BUSINESS MAN-AGEMENT software. This class is an excellent choice for those students interested in pursuing a career in business.

#### BUSINESS/PERSONAL LAW (BUS LAW)

(Grade 11, 12) Full Year Course/1 Credit This course provides an introduction to business and personal law. Major topics covered are ethics and law, the court system, criminal law, torts, contracts, and consumer protection. Current events and court cases are discussed in relationship to the material covered. Observing a trial in progress and holding a mock trial are planned.

#### ENTREPRENEURSHIP

(Grade 10,11,12) One Semester Course/.5 Credit This course is designed to introduce students to the concept of entrepreneurship. It will take students through the process of opening and owning their own business. Students will develop a business plan for their own product or service idea that includes identifying who their potential customers are, marketing their product/ service, determining their financial needs, and developing operational plans for the business. The course will include the Junior Achievement: Be Entrepreneurial program that will bring in a local businessperson for multiple lessons to expand learning.

#### FOUNDATIONS OF BUSINESS 1

(Grade 9,10) One Semester Course/.5 Credit Foundations of Business 1 will expose students to the fundamentals of business. Topics include basic business concepts, organizational communication, human resources management, accounting and finance. The course is an excellent starting point for students considering a career in the business field, giving a brief sampling of the other business courses offered at Cedar Crest High School.

#### FOUNDATIONS OF BUSINESS 2

(Grade 9,10) One Semester Course/.5 Credit Foundations of Business 2 expands upon the Foundations 1 course by allowing students to demonstrate their ability to fill a need or solve a problem in their community by launching a business venture and unleashing their entrepreneurial spirit in a hands-on project through the Junior Achievement Company Program. Topics include entrepreneurship, marketing, and leadership. **Prerequisite:** Foundations of Business 1

#### FUTURE PROFESSIONAL'S INTERNSHIP

(Grade 12) One Semester Course/1 Credit Future Professional's Internship is a program that provides post-secondary bound seniors the opportunity to observe first-hand the career choice they are planning to pursue. Students will be able to observe professional workers employed in the chosen business area. The goal of the program is to give hands-on exposure to seniors at the high school level so that they can make more informed choices before entering post-secondary education. Prerequisite: Acceptance into the program; students must demonstrate that they have good work habits and are responsible students by maintaining good grades, attendance, and discipline records during their junior year.

#### HOSPITALITY AND TOURISM

(Grade 11, 12) One Semester Course/.5 Credit The Hospitality and Tourism course provides students with an understanding of one of the largest industries in the world. Topics include the evolution of the tourism industry, destination geography, airlines, international travel, travel by rail, car rentals, cruising, the hospitality industry, tours, and marketing and sales.

experience in an area of their interest.

#### WELDING AND CONCRETE

(Grade 10,11,12) One Semester Course/.5 Credit This course is designed to introduce students to the welding field. Students will gain practical experience in arc welding, MIG welding, TIG welding, gas welding, gas cutting, and plasma cutting. Students will complete test welds and projects in the various areas. Students will also gain a working knowledge of concrete by pouring concrete forms to complete a project. Basic mixing, pouring, and finishing techniques will be covered in the concrete portion of the course.



#### **ADVANCED POTTERY 2 & 3**

(Grade 10, 11, 12) One Semester Course/ .5 credit This course will have students utilize and reinforce fundamental hand-building construction, as well as wheel-thrown forms. There are opportunities in this course for students to develop a larger ceramic portfolio and create projects based on their creative interests. A high degree of importance will be placed on craftsmanship. **Prerequisite:** Must have completed Pottery 1 with a B or better and teacher approval must be signed to take this course.

#### **DRAWING & COMPOSITION**

(Grade 10,11,12) One Semester Course/.5 Credit This course emphasizes drawing as the basis of all art and is a great course for anyone who wants to improve their ability to render objects. Drawing skills will be taught through creative problem solving, perceptual exercises, figure drawing and visual expression. Students will explore a wide variety of drawing tools, media, concepts and techniques. Keeping a sketchbook is a requirement for this course.

#### PAINTING

(Grade 10,11,12) One Semester Course/.5 Credit Painting is a medium that allows an artist to explore their ideas and emotions through color value, texture, representation, and/or abstrac-

## BUSINESS AND CAREER DEVELOPMENT

(Grade 9) One Semester Course/.5 Credit Business and Career Development introduces high school students to the basics of starting a business, including developing entrepreneurial abilities, identifying a business opportunity, and creating a business plan. In addition, the course equips students with the tools and skills required to earn and keep a job in high-growth career industries through the exhibition of personal-brand and job-hunting tools and strong soft skills.

#### BUSINESS AND PERSONAL LEADERSHIP

(Grade 10,11,12) One Semester Course/.5 Credit This course is designed to prepare students for immediate leadership roles in school and within extra-curricular and community activities and for future academic, career, and citizenship responsibilities. Students will be in charge of organizing and implementing a class project focused on community service while they learn to be an effective leader.

#### BUSINESS MANAGEMENT (BUSINESS MANAGEMENT)

(Grade 10,11,12) One Semester Course/ .5 Credit This course will give students an understanding

#### INTERNATIONAL BUSINESS

(Grade 10,11,12) One Semester Course/ .5 Credit To remain competitive in our global economy today, businesses must operate internationally. This course will expose students to the elements involved in operating on a worldwide basis including political and economic factors, legal issues, and the social and business customs of various cultures.

#### MARKETING

(Grade 10,11,12) One Semester Course/.5 Credit The marketing course will combine business, economic, advertising, and other financial concepts to guide students on an exploration of the world of Marketing. Students will learn the various ways that businesses and organizations help a product get into the hands of the ultimate consumer. From research to pricing, students will learn the fundamental concepts, terms, and practices used for the promotion and advertising of goods and services in the modern world. (Grade 10,11,12) One Semester Course/.5 Credit Saving, Investing, and Financial Decisions is a half-year course that focuses on several different aspects of personal finance. In this class, students will gain an understanding of saving and investing strategies. Students will learn about savings accounts, CD's, stocks, bonds, mutual funds, and other investment vehicles. Students will learn about the potential advantages and disadvantages that come with each type of investment, as well as accepted methods for determining the quality of investment options. The class will also include introductory information pertaining to personal credit scores, acquiring a residence, acquiring an automobile, post-secondary education financial decisions, and various types of personal insurance.

# **SUPERVISED BUSINESS PARTNERSHIP** (Grade 12) Full Year Course/3 Credits

Supervised Business Partnership is a program that will provide the opportunity for students to work in the local business community. The student will secure employment and demonstrate skills required for successful performance in the position. The student will display the ability to communicate effectively with others and perform job tasks accurately and efficiently. Exposure to technology used in the workplace will give hands-on experience to students. Students must apply for acceptance into the program. Prerequisite: Students must demonstrate that they have good work habits and are responsible students by maintaining good grades, attendance, and discipline records during their junior year.

# Business -Computer Applications

#### COMPUTER LITERACY BASICS

(Grade 9-12) One Semester Course/.5 Credit This course will provide students with the opportunity to develop basic skills in keyboarding, computer use, and Microsoft Office applications. Students will obtain a satisfactory level of keyboarding speed, a general understanding of Windows applications, and the ability to utilize the basic features of Word, Excel, and Power-Point. This class is designed for students who have not taken a Business Department computer class at the high school level.

#### MICROSOFT OFFICE APPLICATIONS -- CORE (Grade 9-12) One Semester Course/.5 Credit This course will provide students with intensive training toward core-level expertise in utilizing the following programs in Microsoft Office: Word Excel PowerPoint and Access Success-

Word, Excel, PowerPoint, and Access. Successful completion of this course allows students to take Microsoft Office Applications—Expert.

**MICROSOFT OFFICE APPLICATIONS -- EXPERT** (Grade 9-12) One Semester Course/.5 Credit This course will provide students with advanced intensive training in utilizing the following programs in Microsoft Office: Word, Excel, PowerPoint and Access. Students will be required to take at least one Microsoft Office Specialist (MOS) examination at student expense. Successful completion of examinations leads to certification in Microsoft programs. **Prerequisite:** Microsoft Office Applications--Core.

# English

# AP ENGLISH - LANGUAGE AND COMPOSITION

(Grade 11, 12) Full Year Course/1 Credit This college level course will engage students in becoming skilled readers of prose written in by an essay and/or a test when school resumes. Students who do not complete/turn in summer reading assignments will be given a zero without an opportunity to make up the work. Students are required to take the AP Literature and Composition exam as scheduled by the College Board.

#### ARGUMENT CHS

#### (Grade 12) One Semester Course / .5 Credit

This course, through the University of Pittsburgh, is designed to introduce students to the fundamentals of research and argument construction. Defense of an argument is presented both verbally and in writing. Topics of this course include an introduction to argument, types of argument, constructing an argument, research methods and evidence, delivery of argument, delivery and refutation of arguments, cross-examination, and evaluation or criticism of arguments. Builds on ENGL Comp 101, connecting thinking, reading, and writing. Students have the opportunity to be enrolled in the College in the High School program between Cedar Crest High School and the University of Pittsburgh. Prerequisite: Grade of C or higher in Comp 101.

#### BROADCAST VIDEO PRODUCTION 1

(Grade 9,10,11) One Semester Course/.5 Credit This one semester course will introduce students to the electronic media of video production with a focus on the art of visual storytelling and writing for broadcast in a studio setting. They will learn all aspects of working in a TV studio and interviewing, including audio, lighting and effective camera techniques. Students will learn non-linear video editing with Final Cut Express and how to prepare and distribute media online. They will then put the craft into practice, producing their own work in the field. Students will maintain an online media portfolio. Completion of this course makes students eligible for Broadcast Video Production 2 or 3.

## **BROADCAST VIDEO PRODUCTION 2**

(Grade 10, 11, 12) Full Year Course/1 Credit After learning basic video and audio production skills in the prerequisite class, students are responsible for applying and advancing this basic knowledge by creating, organizing and producing The Morning Show, a daily, live news program shown to the entire school. Students learn to do work as a team in a studio setting, assume leadership positions, and to make difficult technical and creative decisions under time pressure. All students must rotate through all of the on and off air production jobs. In addition, students will have access to computers to learn and advance their non-linear video editing skills. This course will equip students with the communication and technical skills necessary to function in a mediaoriented society. Students are required to spend time outside of class to videotape projects and work in the editing room. All students will maintain an online media portfolio. Producers are eligible for an honors option which entails a summer reading requirement and additional reading throughout the year. This requires 10 hours work time before school begins. Prerequisite: Broadcast Video Production 1 or Introduction to Mass Media.

# BROADCAST VIDEO PRODUCTION 3

(Grade 10, 11, 12) Full Year Course/1 Credit This course provides the serious student of video production with advanced opportunities to be involved in a professional level weekly television show broadcast online and on local cable stations. Students work as an actual production company. They work in conjunction with the district's Community Relations Office to produce CCNN (Cedar Crest News Network), a 30-minute television show which highlights events and information for the entire Cornwall-Lebanon School District. In addition, students must master the use of nonlinear editing equipment and may travel outside the school to tape events. Students are required to spend extensive time outside of class to videotape projects and work in the studio and editing room. Producers are eligible for an honors option which entails a summer reading requirement and additional reading throughout the year. This requires 10 hours work time before school begins. Prerequisite: Broadcast Video Production 1 and 2, or teacher approval.

individual and group projects, generative discussion, lectures, and speakers.

#### CONTEMPORARY FILM ANALYSIS

(Grade 12) One Semester Course/.5 Credit This course will focus critical literary judgment on many classic feature films. In addition to examining the obvious characteristics of motion pictures such as plot and acting techniques, some of the technical aspects of films such as cinematography and special effects will be studied. History, trends, directors, and major stars will also be included in the course.

#### **CREATIVE WRITING**

(Grade 11, 12) One Semester Course/.5 Credit This course will focus on the fundamentals of creative writing. Utilizing the writing process, students will learn to write in a variety of genres. Designed to be a workshop setting, students will develop into a community of writers through participation in peer review and sharing of writing. Students are required to read aloud and share their writing. Journaling and workshop practices of various skills will be used to strengthen student writing. This course does have a reading and research component.

#### **ENGLISH 9 A**

(Grade 9) One Semester Course/.5 Credit This course will focus on developing the skills and strategies necessary for growth in reading, writing and oral communication. Emphasis will be placed on the analysis of fiction and nonfiction texts in preparation for the Keystone Exams.

#### ENGLISH 9 B

(Grade 9) One Semester Course/.5 Credit This course will continue to develop skills acquired in English 9A with emphasis on analysis of longer fictional texts and further development of the writing process.

#### ENGLISH 9 COLLEGE PREP (Grade 9) Full Year Course/1 Credit

This 9th grade college prep English course emphasizes correct grammatical usage and the mechanics of writing. Paragraph writing is reviewed after which the student writes longer compositions and eventually studies the process of creating a research paper. The student will then write a research paper. Extensive examination of literature is stressed, including the novel, the short story, mythology, drama, and poetry. Public speaking is introduced. Vocabulary study is stressed and free reading is encouraged.

#### ENGLISH 9 HONORS

(Grade 9) Full Year Course/1 Credit

This course is an extension of the college preparatory course. The emphasis here is on depth as well as breadth. Each student will be required to complete a summer reading program. The summer reading program will be curricular-based, and an essay will be required during the first week of school on any of the readings that are offered. Students who do not complete/turn in summer reading assignments will be given a zero without an opportunity to make up the work.

#### ENGLISH 10 A

(Grade 10) Fall Semester Course/ .5 Credit This course will prepare students for the Keystone Literature Exam at the end of the semester. Students will learn skills from all Common Core Standards – reading, speaking, listening, research, and writing. Fiction, non-fiction texts and poetry will be examined.

#### ENGLISH 10 B

(Grade 10) Spring Semester Course/.5 Credit This course will apply the skills acquired in Literature Foundations 10 with emphasis on the writing process, while also honing skills from all Common Core Standards. Paragraph writing will be stressed, along with the study of the novel, as breadth. Students will learn skills from the Common Core Standards – reading, speaking, listening and writing. Fiction and non-fiction texts, and poetry, will be examined. **Each student will be required to complete a summer reading assignment.** The summer reading assignment will be curricular-based with an essay and test given during the first week of school.

#### ENGLISH 10 HONORS B

(Grade 10) Spring Semester Course/.5 Credit This course will apply the skills acquired in Literature Foundations 10 Honors with emphasis on the five domains of writing and the research process. There will also be an emphasis on the study of the novel and drama. A research paper will be given. **Prerequisite:** Literature Foundation 10 Honors.

#### ENGLISH 11 A - KEYSTONE

(Grade 11) Fall Semester Course/ .5 credit

This fall-semester course is required for all 11th grade students who have not achieved a score of proficient or advanced on the Keystone Literature Exam during their 10th grade year. This course will also focus on the skills from all Common Core Standards – reading, speaking, listening, research and writing – in preparation for re-taking the Keystone Exam during the winter testing window.

#### ENGLISH 11 B - AMERICAN LITERATURE

(Grade 11) Spring Semester Course/.5 credit In this spring semester course, students will study American Literature through a combination of writing and literature analysis. Included in the course will be short stories from Poe and other dark authors. Longer pieces may include The Crucible and A Streetcar Named Desire.

## ENGLISH 11 COLLEGE PREP A

# – MODERN LITERATURE 1

(Grade 11) Fall Semester Course/.5 credit The essence of this course is critical reading, writing and the discussion of selection contemporary classics and modern novels. The term "contemporary classics" are books that are considered classic literature, but all published since the early 20th century. The focus of this class will be to pair a contemporary classic with a modern young adult novel; all book selections will be paired readings. This is a college prep level course, but will be very challenging.

#### ENGLISH 11 COLLEGE PREP B - AMERICAN LITERATURE

(Grade 11) Spring Semester Course/.5 credit This class offers junior college-prep students the opportunity to venture into the shadowy side of American Literature. Through a combination of writing and literature analysis, students will use the voices of authors, such as Arthur Miller, Ray Bradbury, and others, to analyze the human mind and human behavior. An emphasis on the writing process will be in the form of a research paper. The course includes exams and projects for assessment. Miller's drama The Crucible and Bradbury's dystopian novel Fahrenheit 451 are examples of the types of literature included in this course.

#### ENGLISH 11 HONORS A

(Grade 11) Fall Semester Course/ .5 Credit

This honors-level course will engage students in fiction prose written in a variety of periods, disciplines, and contexts. Writing will focus on developing skills in synthesis, analysis, and research. Each student will be required to read and analyze a variety of literary texts, such as, but not limited to, the following: The Crucible by Arthur Miller; Fahrenheit 451 by Ray Bradbury; The Catcher in the Rye by J.D. Salinger; and The Great Gatsby by F. Scott Fitzgerald.

#### ENGLISH 11 HONORS B

(Grade 11) Spring Semester Course/.5 Credit This honors level course will engage students in fiction and non-fiction prose written over various periods and disciplines. Students will study the connection among writer's purpose, audience expectation, and subject. Students will continue to build on writing skills developed in English 11 Honors A to create essays and research papers.

a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectation, and subjects as well as the way generic conventions and the resources of language contribute to the effectiveness of writing. Students taking this course will complete a summer reading program, which must be completed by Aug. 17. Students who do not complete/turn in summer reading assignments will be removed from the course. Students may not add this course once school begins. Students are required to take the AP Language and Composition exam as scheduled by the College Board.

**Prerequisite:** B- average in English 10 Honors or A- average in English 10 CP.

#### AP ENGLISH - LITERATURE AND COMPOSITION (Grade 12) Full Year Course/1 Credit

The college-level course will engage students in the careful reading and critical analysis of imaginative literature. Students will examine the great works of literature, drama, poetry and non-fiction, and respond analytically, both orally and in writing. Students taking this course will complete a summer reading program, followed

#### CLASSICAL STUDIES HONORS

#### (Grade 12) Full Year Course/1 Credit

The course will consist of a theoretical foundation in the Greco-Roman tradition, with some comparative analysis to that of Eastern philosophy, with a focus in making connections across broad spans of time. Using literature and literary theory as a gateway, this course will incorporate several aspects of the Humanities that include philosophy, politics, artistic representation, religion, gender studies, and history. By carefully examining several distinct periods and places, Honors Classical Studies pushes students to analyze the evolution and metamorphosis of world perspectives. This course is NOT an elective, but is an Honors level English class with the aim of preparing students for college. This self-directed, initiative-based course includes

drama and the research process.

#### ENGLISH 10 COLLEGE PREP A

#### (Grade 10) Fall Semester Course/ .5 Credit

This course will prepare students for the Keystone Literature Exam at the end of the semester. Students will learn skills from the Common Core Standards – reading, speaking, listening and writing. Students will be familiar with narrative, persuasive, descriptive and expository pieces of writing. Through oral communication, vocabulary, and an appreciation of literature in fiction and non-fiction texts, and poetry, students will prepare for college.

#### ENGLISH 10 COLLEGE PREP B

(Grade 10) Spring Semester Course/.5 Credit This course will apply the skills acquired in Literature Foundations 10 CP with emphasis on the five domains of writing and the research process. There will also be an emphasis on the study of the novel and drama. A research project will be given.

#### **ENGLISH 10 HONORS A**

(Grade 10) Fall Semester Course/.5 Credit This course will prepare students for the Keystone Literature Exam at the end of the semester. This course is an extension of the college preparatory course. The emphasis here is on depth as well

#### ENGLISH 12 A KEYSTONE

(Grade 12) Fall Semester Course/.5 Credit This fall semester course is required for all 12th graders who score below the level of proficiency on the Literature Keystone Exam. The students will learn various skills from the Common Core Standards (reading, speaking, listening, research, writing). Students will be required to demonstrate proficiency in literature by completing the state's Keystone Literature project.

#### ENGLISH 12 B – BRITISH LITERATURE

(Grade 12) Spring Semester Course/.5 Credit Students will be exposed to and develop an appreciation for British literature. Students will compare, contrast, synthesize, and analyze works of literature from Old, Middle, and Modern periods to gain an appreciation of how world growth and leadership affected the English language and literature. **Prerequisite:** English 12A - Keystone.

#### **CONTINUED** ON PAGE 12

# **English** CONTINUED FROM PAGE 11

#### English 12 COLLEGE PREP A

(Grade 12) Fall Semester Course/ .5 Credit In this writing-intensive course, students will use the drafting and editing process to complete various writing assignments while also hone research and documentation skills. Students will also be introduced to the Anglo Saxon and Middle Ages time periods in British literature to gain an appreciation of how world growth and leadership affected the English language and literature.

#### ENGLISH 12 COLLEGE PREP B - BRITISH LITERATURE

(Grade 12) Spring Semester Course/.5 Credit While studying British literature of the Renaissance and beyond, students will compare, contrast, synthesize, and analyze pieces to gain an appreciation of how world growth and leadership affected the English language and literature. Instruction will focus on implementing the foundations of poetry, satire, and drama. Writing assignments will analyze the foundations reflected in the works of literature being studied.

#### ENGLISH 12 COLLEGE PREP B - MODERN LITERATURE 2

(Grade 12) Spring Semester Course/.5 Credit Modern Literature 2 is a course in critical reading, writing and discussion of a selection of contemporary classic and modern novels, which is a continuation of Modern Literature I. We will examine the texts from multiple viewpoints, examining the works for not only themes, narratives, and writing style, but we will also apply a variety of critical theories to the works. The texts, discussions and formats are different from those experienced in a typical high school English class. The student taking this course can be expected to be challenged; all reading will be done outside class.

#### ENGLISH 12 COLLEGE PREP B – SPEECH

(Grade 12) Spring Semester Course/.5 Credit This class is a practical course designed to offer the novice speaker opportunities to organize and prepare public speaking assignments. The class offers students specific technical, physical, and rhetorical strategies to improve their ability to speak effectively in front of an audience. The course will also offer a "laboratory setting" where beginning speakers can actually stand in front of the live audience in class and present their practiced performances.

#### **ENGLISH COMPOSITION 101 CHS**

(Grade 12) One Semester Course/ .5 Credit This Honors level course is designed for students ready for the experience of an introductory college composition course. This foundational course will focus on expository writing and research, preparing students for actual writing situations encountered in all college courses, not just those in English. With a focus on writing, students will leave the course with a strong basis for college level writing and have a portfolio of their writing. Students have the opportunity to be enrolled in the College in the High School program between Cedar Crest High School and Harrisburg Area Community College. Students will qualify through placement testing. Three (3) college credits through HACC will be awarded to students who successfully complete the course with a grade of C or higher. This class qualifies for one half credit of senior year English.

#### **GREAT BOOKS**

(Grade 11, 12) One Semester Course/.5 Credit This course covers in detail some of the great classics of all time. Each student will discuss

#### NEWSPAPER PRODUCTION HONORS

(Grade 10, 11, 12) Full Year Course/ 1 Credit Newspaper Production students will become staff writers, photographers and/or page editors of the student newspaper, The Talon. Students will be required to prepare the first issue prior to the start of the school year. **Prerequisite:** Introduction to Mass Media, Broadcast Video 1 or teacher approval.

#### SPEECH HONORS

# (Grade 12) One Semester Course/.5 Credit

This honors-level course will meet half of the 12th grade English requirement. The course is built around the deep inquiry into rhetorical analysis and the intensification of ideas and style, with emphasis upon persuasive speaking. Attention will be given to specialized form of public address and will include lecture, discussion, research, presentations, and writing scholarly papers. The course will teach the fundamentals of conducting scholarly research, accepted citation standards, and effective writing techniques for the communication discipline and teaches preparation, presentation, and appraisal of speeches on contemporary subjects. Students enrolled in this course are eligible to compete in local and regional forensics competition. This class qualifies for one half credit of senior year English.

#### THEATER: ACTING/DIRECTING/PLAYWRITING

(Grade 10,11,12) One Semester Course/.5 Credit Students will study the components of theater - acting, directing and playwriting. Students will learn monologue, scene study and playwriting skills. Students will learn the various directing techniques of blocking, casting and set design.

#### YEARBOOK PRODUCTION

(Grade 10, 11, 12) Full Year Course/1 Credit Yearbook Production students will become staff writers, photographers and/or page editors of the school yearbook, The Cedar Log. Editors-in-Chief will be eligible for an honors option which includes summer planning sessions and additional reading requirements throughout the year. **Prerequisite:** Introduction to Mass Media, Broadcast Video Production, Photography 2 or teacher approval.

# Family & Consumer Sciences

#### FAMILY AND CONSUMER SCIENCES

(Grade 9-12) One Semester Course/ .5 Credit In this course, you will be introduced to a variety of areas that will help you become a more responsible teenager and young adult within a diverse global society. The following concepts will be addressed: financial and resource management; work force preparedness and performance; budgeting of income, and family, work and community responsibilities; purchase decisions and your rights and obligations as a consumer; food safety and handling; and child development. Completion of this course will enable you to achieve a level of confidence in dealing with life's daily situations within family life, work life and community responsibility. Students will continue and complete a module in their Project Life career project.

#### FOODS

(Grade 9-12) One Semester Course/ .5 Credit Basic food preparation techniques will be learned and practiced with a variety of foods to include breads; meats; fruits and vegetables; and dairy products. Modifying recipes to lower fat, sugar, and salt content for healthier eating will be included. Nutrition facts and dietary guidelines, food safety, and the vegetarian diet will be special issues studied in the foods lab. As students broaden their creative cooking experiences, they will be confident in preparing nutritious foods for themselves, their families and friends. A lab fee may be charged. This course is a prerequisite for International and American Cuisine.

#### LIVING ON YOUR OWN

(Grade 10,11,12) One Semester Course/ .5 Credit In this course, college and technical school bound students and those preparing for immediate employment in the work force after graduation will look at the transition to independent living and what is involved in adjusting to a new life. Whether on the college campus or in a small apartment, the skills needed to survive in adult roles and perform adult functions will be developed. Content areas include personal development; employment readiness and what employers are looking for; resource management of time and money; financing school and filing applications; major purchase decisions including buying a car and maintaining it; understanding the world of insurance; selection and care of clothing; food preparation techniques and consumer decisions of simple, healthy meals; family relationships and housing decisions.

#### PRESCHOOL CHILD

(Grade 11, 12) Full Year Course/1 Credit It is a practical course designed for all students who are interested in children and the wide variety of careers involving children. You will understand the physical, intellectual, emotional, social and moral development of the preschool age child, ages 3 to 5. You will evaluate a variety of curriculum strategies, child development theories and complete projects in each subject area identified with the learning process: art, math, science, language development, dramatic play, music and movement, toys, books, and technology. There will be observations of children and interaction with the preschool age children in the department's child development laboratory. You will be responsible for developing lesson plans for the preschool lab which will operate the second semester. Students will work cooperatively with class members to provide a positive and exciting learning environment for the preschool age child. Preschool runs periods 4 and 5 during second semester; therefore students must schedule a lunch.

**Prerequisites:** A lab fee for staff shirts will be charged. Grade of 80% or better has been earned in Understanding Children and pre-approval from preschool child course instructor is required.

#### UNDERSTANDING CHILDREN (UNDERST CHILD)

(Grade 10,11,12) One Semester Course/ .5 Credit The course is designed for all students interested in working professionally with children in early childhood education, elementary education, child psychology, child care and parenting. Students will study the child from birth to age six, and school readiness. Social, emotional, physical, and intellectual growth will be emphasized. How children learn and the influences that affect the growth and development of children will be studied. The course provides students with opportunities to observe infants through kindergarten age and to gain practical experience working with preschoolers in an actual play-school situation in the preschool child development lab. Developing a community educational program, appropriate for the child's age, will be implemented either in a nursery school setting or public school kindergarten and first grade.

# Health & Physical Education

#### ADAPTIVE PHYSICAL EDUCATION

(Grade 9, 10, 11, 12) As Needed/ .5 Credit Adaptive Physical Education is available to any

athletic participation and/or individual weight training goals. Concepts of sports nutrition and exercise physiology will be explored throughout the semester to enhance performance. Students should expect to follow a teacher designed workout program for the majority of the semester with a concentration on muscular strength and muscular endurance. This course is for highly motivated students and athletes and will give them the opportunity to exercise vigorously during the school day to achieve personal goals and meet high course expectations. Students may not take this course more than one time. This course does count as a <sup>1</sup>/<sub>2</sub> credit physical education graduation requirements. Prerequisite: Successful completion of Advanced Fitness 1 with a 70% or higher.

## ADVANCED FITNESS 3

(Grade 10-12) One Semester Course/ .5 Credit This course will focus on differentiated lifting phases and workouts based on individual's athletic participation and/or individual weight training goals. Concepts of sports nutrition and exercise physiology will be explored throughout the semester to enhance performance.Students should expect to research and then create and apply a workout specifically designed for their personal weight training goals. This course is for highly motivated students and will give them an opportunity to exercise vigorously during the school day to achieve personal goals and meet high course expectations. Students may not take this course more than one time. This course does not count as a ½ credit toward physical education graduation requirements. Students may not repeat this course. Prerequisite: Successful completion of Advanced 1 and 2 with a 70% or higher.

#### ADVANCED HEALTH TOPICS

(Grade 11, 12) One Semester Course / .5 Credit This is a special one semester course for juniors and seniors in which the curriculum will challenge and enhance student awareness, prevention and strategies in the area of promoting overall health. The course will be student centered and students will use research, analysis and evaluation of the most current health issues. Topics covered could include human growth and development, drugs and alcohol/ addictions, consumer health, environmental health, fitness for life, etc. This course would aid students in achieving a healthy lifestyle that they could take with them as they enter adult life. Prerequisite: Successful completion of a regular PE course with a B- or higher and successful completion of Health with a B- or higher.

#### GENERAL PE

(Grade 9-12) One Semester Course/ .5 Credit All students will participate in and must pass a comprehensive co-educational physical education program. Course content includes: team activities, individual activities, aquatics, outdoor education, and fitness. Each student will also complete an individualized FITT project. Students must earn a 70% or above in order to be eligible to take any of the electives. Students may repeat this course if there is no interest in the elective classes.

#### HEALTH

(Grade 10) One Semester Course/.5 Credit All tenth grade students are required to take one semester of Health Education. Course content includes (1) wellness, (2) addiction, (3) nutrition, (4) human sexuality (5) aging, death and dying. This course is a graduation requirement.

#### LIFEGUARDING CERTIFICATION

(Grade 10.11.12) One Semester Course/.5 Credit Lifeguarding is designed to provide entry-level lifeguard participants with the knowledge and skills to prevent, recognize and respond to aquatic emergencies, injuries and sudden illnesses until emergency medical services (EIVIS) personnel arrive and take over the emergency situation. This course will teach the skills necessary for a student to earn an American Red Cross lifeguard certification. Students must attend all classes, pass all tests, and competently perform required skills in order to receive certification at the end of the course. Payment and attendance does not guarantee certification. This course also includes training in First Aid/ CPR/AED for Professional Rescuers.

master plots of these classics in an attempt to be more familiar with the great writers and their works.

#### HUMANITIES

#### (Grade 11, 12) Full Year Course/1 Credit

The Humanities express and explore what it means to be human through words, ideas and images. They empower us to create our sense of self, to shape the world around us, to appreciate how the past has shaped the present, and to be creative in all that we do. The Humanities are central to a general education, one that prepares us for lives and careers. The Humanities Elective will give you the freedom to explore how art, religion, philosophy, music and literature have impacted the world in which we live. Techniques of learning include class projects, generative discussion, lectures, and speakers.

#### INTRODUCTION TO MASS MEDIA

(Grade 9,10,11) One Semester Course/.5 Credit This course prepares students to become staff members of the Talon, the school newspaper and the Cedar Log, the yearbook. Students will learn to write articles, take and edit digital photographs, design pages, and complete projects for all school publications.

#### HOUSING AND INTERIOR DESIGN

(Grade 10,11,12) One Semester Course/ .5 Credit Housing and Interior Design addresses the planning of living environments to meet the needs and wants of individuals and families. Housing explores the historical, cultural, social, and technological influences on today's homes. Interior Design applies the elements of design, principles of design, and color theory to selecting fixtures, furnishings, materials, and colors.

#### INTERNATIONAL AND AMERICAN CUISINE

(Grade 10,11,12) One Semester Course/ .5 Credit Students will have a multicultural experience as they study the foods, dietary needs, family traditions, and celebrations of people around the world. Continent by continent, students will prepare delicious, easy-to make main dishes, side dishes, salads and desserts as they discover new flavors, tastes, cultures and customs. International and American foods will be created throughout the semester to share with classmates. A lab fee may be charged. **Prerequisite:** Successful completion of Foods. student who cannot participate in regular physical education classes due to an injury, illness, or medical/psychological condition. A variety of modified games and therapeutic activities are offered for short-term or long-term students. Medical certification or referral is required.

#### ADVANCED FITNESS 1

(Grade 10, 11, 12) One Semester Course/ .5 Credit The course is geared toward beginner weight lifters and individuals interested in focusing on personal fitness with a concentration in muscular strength and muscular endurance. General strength and fitness will be achieved for the first portion of course before advanced lifting technique is taught. Course will incorporate general knowledge on muscles and health and skill related fitness components. This course is for highly motivated students and athletes and will give them the opportunity to exercise vigorously during the school day to achieve personal goals and meet high course expectations. Students may not retake course. Prerequisite: Successful completion of general PE with a 70% or higher.

#### ADVANCED FITNESS 2

(Grade 10, 11, 12) One Semester Course/.5 Credit The course will focus on differentiated lifting phases and workouts based on individuals'

#### LIFETIME ACTIVITIES

(Grade 10-12) One Semester Course/.5 Credit This coeducational course is designed for students to experience fitness activities on an individualized basis. Course activities include, but are not limited to weight training, fitness walking, fitness activities, aquatics, yoga, aerobics, and small group/game activities. **Prerequisite:** Must have 70% or above in General PE class. Students may not repeat this course.

#### **NET/WALL GAMES**

(Grade 10-12) One Semester Course/ .5 Credit Description: This coeducational course is designed for students to continue to develop and improve the skills and knowledge necessary to participate successfully in a variety of racquet sports and/or net sports. Participation will result in a better understanding of activities for life-long fitness. Students are expected to learn more advanced skills and strategies and demonstrate them in game situations. Racquet sports that may be included are: tennis, pickleball, badminton and table tennis and aquatics. Particular net sports, such as volleyball, may also be included. Prerequisite: Must have 70% or above in General PE class. Students may not repeat this course.

#### PERFORMANCE STRENGTH TRAINING

(Grade 9-12) One Semester Course / .5 credit The emphasis in this course is on muscular strength gains, endurance, flexibility, and safety. The core lifts in this course include squats, power and hanging cleans, bench press, and incline press. Weight room safety, warm-up/cool down procedures, lifting technique and safety for all lifts, and individual goal setting are all important components in this course. In addition, students will monitor and improve their fitness levels. The goal of this course is to make student athletes bigger, faster, and stronger. **Prerequisite:** General PE, varsity coach recommendation, and individualized strength plan.

#### PHYSICAL EDUCATION/DRIVER'S EDUCATION

Grade (10, 11, 12) One Semester Course/.5 Credit This is an approved driver's education classroom training course for all interested students in grades 10-12. This program meets Pennsylvania Department of Education regulations and insurance industry requirements. One marking period will be devoted to driver's education while the other marking period will highlight the essential content of the regular physical education course. The classroom instruction will consist of at least 30 hours of instruction provided by a certified teacher.

# **Mathematics**

#### AP CALCULUS AB CHS

Full Year Course/1 Credit

This Advanced Placement (AP) course in mathematics consists of a full high school academic year of work in calculus that is comparable to courses in colleges and universities. It is expected that students who take an AP course in calculus will seek college credit, college placement, or both, from institutions of higher learning. The majority of the year will be devoted to a rigorous study of topics on limits, and differential and integral calculus, as well as a focus on successful completion of the AP exam. A graphing calculator will be required for all students enrolled in this course. Students in this course may volunteer to be enrolled in the College in the High School program between Cedar Crest High School and Harrisburg Area Community College. For additional information, please see the section describing College in the High School in the front of this booklet. Students may choose to take this course for College in the High School credit through HACC or must take the AP Calculus AB exam as scheduled by the College Board.

**Prerequisite:** Successful completion of Pre-Calculus Honors or an A- in Pre-Calculus and teacher recommendation.

## AP CALCULUS BC

# Full Year Course/1 Credit

This Advanced Placement (AP) course in mathematics consists of a full high school academic tistical operations and tests used in descriptive and inferential statistics. A graphing calculator will be required for students enrolled in this course. Students in this course may volunteer to be enrolled in the College in the High School program between Cedar Crest High School and Harrisburg Area Community College. For additional information, please see the section describing College in the High School in the front of this booklet. **Students may choose to take this course for College in the High School credit through HACC or must take the AP Statistics exam as scheduled by the College Board.** 

**Prerequisite:** Successful completion of Algebra 2 Honors, or Pre-Calculus Honors, or Pre-Calculus with a final grade of A- or higher and teacher recommendation.

## ALGEBRA 1A

#### One Semester Course/ .5 Credit

This course is designed to focus on the eligible content anchors for the Algebra 1 Keystone Exam. Major topics include Operations with Real Numbers, and Linear Equations and Inequalities. There is a focus on real world applications and the use of technology to assist learning and promote student achievement.

#### ALGEBRA 1B

#### One Semester Course/ .5 Credit

This course is designed to focus on the eligible content anchors for the Algebra 1 Keystone Exam. Major topics include an Introduction to Functions, Graphing Linear Equations, Interpreting Graphs, and Probability. There is a focus on real world applications and the use of technology to assist learning and promote student achievement. **Prerequisite:** Completion of Algebra 1A OR Completion of Algebra 1 CP A and Recommendation of Algebra 1 CP A Teacher

#### ALGEBRA 1C Full Year Course/1 Credit

This course is designed to focus on the eligible content anchors for the Algebra 1 Keystone Exam. Major topics include Graphing Linear Inequalities, Writing Equations of Lines, Systems of Equations and Inequalities, Polynomials and Factoring, and Data Analysis. There is a focus on real world applications and the use of technology to assist learning and promote student achievement. **Prerequisite:** Successful completion of Algebra 1B OR Recommendation of Algebra 1 CP B Teacher.

## ALGEBRA 1 COLLEGE PREP A

## One Semester Course/ .5 Credit

This course is designed for students interested in a college prep approach to Algebra. It is a study of the basic structure of Algebra, and the major topics include Linear Equations and Inequalities, Exponents, Absolute Value, and an introduction to Functions. Graphing calculators will be used in this course. **Prerequisite:** Completion of Math 8A with a final grade of C (75%) or higher and teacher recommendation

#### ALGEBRA 1 COLLEGE PREP B

One Semester Course/ .5 Credit

This course is designed for students interested in a college prep approach to Algebra. It is a study of the basic structure of Algebra, and the major topics include Graphing Linear Equations and Inequalities, Writing Equations of Lines, Systems of Equations and Inequalities, Polynomials and Factoring, and Data Analysis. Graphing calculators will be used in this course. **Prerequisite:** Completion of Algebra 1 CP A with a final grade of C (75%) or higher and Recommendation of Algebra 1 CP A teacher.

#### ALGEBRA 1 HONORS

#### Full Year Course/1 Credit

This course is designed for students who are interested in an Honors level approach to Algebra. The course is a study of the basic structure of Algebra that is conducted at a faster rate and with greater depth than our other Algebra 1 offerings. Graphing calculators will be used in this course. **Prerequisite:** Student should have scored a 93% or above in Math 8A.

#### ALGEBRA 2 HONORS Full Year Course/1 Credit

This course will review and extend the topics

developed in Algebra 1 and Geometry in preparation for more advanced study in Pre-Calculus and beyond at the Honors level. A graphing calculator will be required for all students enrolled in this course. **Prerequisite:** Geometry Honors or Geometry CP with a final grade of A- or higher and teacher recommendation.

#### ALGEBRA 3 COLLEGE PREP Semester Course/ .5 Credit

This course is intended to serve as a bridge from Algebra 2 to College Algebra, whether that course is taken at Cedar Crest or in an institution of higher learning. Topics presented in the course include functions and graphs, polynomial and rational functions, exponential and logarithmic functions, and radical functions. A graphing calculator will be used in this course. **Prerequisite:** Successful completion of Algebra 2 CP and Geometry CP OR successful completion of Algebra 2 and Geometry with teacher recommendation.

#### BUSINESS CALCULUS CHS Full Year Course/1 Credit

This course is a college Business Calculus course designed for students who have completed Pre-Calculus and who have an interest in the business field, want to receive college math credit, or want to take Calculus. There will be an emphasis on elementary functions and basic differential and integral calculus concepts including limits, continuity, derivatives, integrals, and area under curves. Applications of derivatives including curve sketching, related rates, marginality, and optimization will be covered. Students have the opportunity to be enrolled in the College in the High School program between Cedar Crest High School and University of Pittsburgh. For additional information, please see the section describing College in the High School in the front of this booklet.

**Prerequisite:** Successful completion of Pre-Calculus CP.

#### CALCULUS HONORS

Full Year Course/1 Credit

This course is designed for students who have successfully completed Honors Pre-Calculus and are not interested in taking the AP exam. There will be emphasis on elementary functions and basic differential and integral calculus concepts including limits, derivatives, definite integrals, and area under curves. The application of derivatives and integrals will also be studied. A graphing calculator will be required for all students enrolled in the course. **Prerequisite:** Successful completion of Pre-Calculus Honors or an A- in Pre-Calculus and teacher recommendation.

#### COLLEGE ALGEBRA CHS

(Grade 12) One Semester Course/ .5 Credit This is a college level course in Algebra, developing ideas in the following topics on a level on par with the typical college course taken in Algebra: Equations and Inequalities, Graphs, Functions and Their Graphs, Polynomial and Rational Functions, Exponents and Logarithmic Functions, Systems of Equations and Inequalities, and Matrices. Students have the opportunity to be enrolled in the College in the High School program between Cedar Crest High School and Harrisburg Area Community College. CHS students will qualify through placement testing. Three (3) college credits through HACC will be awarded to students who successfully complete the course with a grade of C or higher. This class qualifies for one half credit of senior year mathematics. Prerequisite: Students must pass Pre-Calculus or Algebra 3 CP and any HACC placement tests required.

thinking, and problem solving. Proofs of theorems, the reasoning of postulates, projects, and geometric calculations provide the essential workload of the course. This is an honors level course intended to give students the geometry concepts needed to study Pre-Calculus and Calculus. **Prerequisite:** Successful completion of Algebra 1 Honors or Algebra 1 CP with a final grade of A- or higher.

#### **KEYSTONE MATH**

One Semester Course/ .5 Credit (Credit does not apply to required graduation Mathematics Credits)

This course is required of all 12th grade students who have not achieved a score of proficient or advanced on the Algebra 1 Keystone Exam by the end of their 11th grade year. This course will review content covered in the Keystone eligible content anchors and requires students to pass exams on 7 units that encompass all of the Keystone Algebra 1 eligible content. Successful completion of this course will lead to meeting local requirements for graduation related to the completion of the Algebra 1 Keystone Exam. **Prerequisite:** Basic or Below Basic score on Algebra 1 Keystone Exam.

#### **KEYSTONE PREP MATH**

One Semester Course/.5 Credit (Credit does not apply to required Mathematics Credits)

This course is required of all 10th and 11th grade students who have taken the Algebra 1 Keystone Exam and did not receive a score of Proficient or Advanced. This course will review content covered in the Keystone eligible content anchors in an attempt to strengthen student Algebra skills and leave them better prepared for future attempts at the Algebra 1 Keystone Exam. **Prerequisite:** Student, in 10th or 11th grade, has attempted Algebra 1 Keystone Exam and scored no higher than basic.

#### PRE-CALCULUS COLLEGE PREP

Full Year Course/1 Credit

This course is intended for students who have successfully completed Algebra 2 CP and Geometry CP. It is appropriate for students planning future course work in mathematics including calculus, finite mathematics, discrete mathematics, and statistics. Topics presented in the course include functions and graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, and applications of trigonometry. A graphing calculator will be required for all students enrolled in this course. **Prerequisite:** Completion of Algebra 2 CP and Geometry CP with a B- or higher or teacher recommendation

#### PRE-CALCULUS HONORS Full Year Course/1 Credit

This course is designed to prepare a student to take calculus. It is appropriate for students who intend to major in mathematics or a mathematics-related field. Topics included are: coordinate geometry of points and lines, solutions to linear and polynomial equations, complex numbers, inequalities, functions, logarithms, polar coordinates, and circle and triangle trigonometry. Theory as well as application will be discussed. Models and calculators will be our tools as we use mathematics to describe patterns and phenomena that occur in our world. A graphing calculator will be required for all students enrolled in this course. Prerequisite: Successful completion of Geometry Honors and Algebra 2 Honors OR Geometry CP and Algebra 2 CP with a final grade of A- or higher and teacher recommendation.

## STATISTICS COLLEGE PREP

Semester Course/ .5 Credit

This course is an introductory course in statistics intended for students in a wide variety of areas of study. It introduces students to the major

year of work in second year calculus that is comparable to courses in colleges and universities. It is expected that students who take an AP course in calculus will seek college credit, college placement, or both, from institutions of higher learning. Topics include advanced integration techniques, advanced integral applications, series, and differential and integral calculus as it applies to parametric, polar, and vector functions. A graphing calculator will be required for all students enrolled in this course. **Students must take the AP Calculus BC exam as scheduled by the College Board.** 

**Prerequisite:** Successful completion of AP Calculus AB

#### AP STATISTICS CHS

Full Year Course/1 Credit

This Advanced Placement (AP) course in mathematics consists of a full high school academic year of work in statistics that is comparable to courses in colleges and universities. It is expected that students who take an AP course in statistics will seek college credit, college placement, or both, from institutions of higher learning. This course includes numerical and graphical summaries of data, experimental design, probability, sampling distributions, confidence intervals, tests of significance, and other sta-

#### ALGEBRA 2

Full Year Course/1 Credit

This course will review and extend concepts developed in Algebra 1A, Algebra 1B, and Algebra 1C. Additionally, it will include topics such as polynomials, rational expressions/equations, quadratic functions, and probability and statistics. Graphing calculators will be used in this course. **Prerequisite:** Successful completion of Algebra 1C.

#### ALGEBRA 2 COLLEGE PREP

Full Year Course/1 Credit

This course is designed for students who have successfully completed Algebra 1 CP. The course will review and extend the concepts developed in Algebra 1 CP. Additional topics include the basic operations of polynomials and rational expressions. Graphing calculators will be used in this course. **Prerequisite:** Successful completion of Algebra 1 CP A and Algebra 1 CP B.

#### GEOMETRY

#### Full Year Course/1 Credit

This course is an informal approach to the study of shapes on a plane and in space. Throughout the course, emphasis will be placed on notation, observation, measurement, and the problem solving skills needed in many technical professions. This course is recommended for students who are not ready for the challenge of academic Geometry but wish to be exposed to the topics of Geometry. **Prerequisite:** Successful completion of Algebra 1C.

#### **GEOMETRY COLLEGE PREP** Full Year Course/1 Credit

This course will provide students with the fundamental vocabulary, properties, and techniques of Geometry. The course reviews and maintains students' algebraic skills and relates geometric skills to other mathematical topics. **Prerequisite:** Successful completion of Algebra 2 CP, or successful completion of Algebra 2 CP concurrently.

#### **GEOMETRY HONORS**

Full Year Course/1 Credit

This course is designed to inspire a greater awareness of the geometric surroundings. The main goal of this course is to enhance the development of deductive reasoning skills, critical concepts of collecting, analyzing and drawing conclusions from data. Topics include displaying and describing data, regression, sampling and experimentation, probability and statistical inference with an emphasis on real-world applications. Students will use technology as they build conceptual understanding. **Prerequisite:** Successful completion of Algebra 2 CP and Geometry CP OR successful completion of Algebra 2 and Geometry with teacher recommendation.

#### TRIGONOMETRY COLLEGE PREP

Semester Course/ .5 Credit

This course is designed to provide a study of trigonometry to students who intend to go to college in a non-mathematics related field. Topics of study will include right triangle trigonometry, circle trigonometry, trigonometric functions and identities, and trigonometric applications. A graphing calculator is used in this course. **Prerequisite:** Successful completion of Algebra 2 CP and Geometry CP OR successful completion of Algebra 2 and Geometry with teacher recommendation.

# Math - Computer Programming

## ADVANCED COMPUTER SCIENCE TOPICS HON

(Grade 11, 12) One Semester Course/.5 Credit This course covers more advanced programming concepts such as higher-level data structures in both the C and Java programming languages, design and usability issues, discrete math and principles of software engineering. **Prerequisite:** Successful completion of Computer Science Foundations 2 with a final grade of B or higher.

# ALICE: PROGRAMMING VIA ANIMATION AND 3D VIRTUAL WORLDS

(Grade 9,10,11,12) One Semester Course/.5 Credit This course uses a programming environment called Alice that allows students to learn basic computer science while creating animated movies and simple video games where students control the behaviors of 3D objects and characters in a virtual world. Topics to be covered include looping, selection and data structures, along with how to control objects (raise hands, flap wings, move, turn, spin, walk, etc.). At the conclusion of the course, students will design and create a culminating virtual world of their choice.

#### AP COMPUTER SCIENCE A

(Grade 10, 11, 12) Full Year Course/1 Credit This course is designed to prepare students for the AP Computer Science "A" Exam. Main topics include object-oriented design and theory, the Java programming language, and an in-depth study of algorithms. The course contains college-level material and will require independent study and reading as well as strong problem-solving skills. **Students are required to take the AP Computer Science A exam as scheduled by College Board.** 

**Prerequisite:** Successful completion of Computer Science Foundations 2 with a final grade of B or higher for both the course and the cumulative competency assessment.

#### AP COMPUTER SCIENCE PRINCIPLES

(Grade 11, 12) Full Year Course/1 Credit

This course is designed to prepare students for the AP Computer Science Principles Exam. It will focus on the innovative and creative aspects of computing as well as information theory, security and privacy issues, networks and databases, manipulation of digital media and basic programming with JavaScript. It contains college-level material and will require independent study and reading as well as strong problem-solving skills. **Students are required to take the AP Computer Science A exam as scheduled by College Board. Prerequisite:** Successful completion of two years of high school math with final grades of B or higher.

#### **COMPUTER SCIENCE FOUNDATIONS 1**

(Grade 9,10,11,12) One Semester Course/.5 Credit This course will cover how computers work and how they can be used to find solutions to various problems. Key topics will include creation and study of algorithms, program design and foundational programming in the C programming language. **Prerequisite:** Proficient typing skills and at least a grade of B in Algebra 1.

#### **COMPUTER SCIENCE FOUNDATIONS 2 CHS**

(Grade 9,10,11,12) One Semester Course/.5 Credit This course will focus on problem analysis and the continued development of algorithms and computer programs in Java. Students have the opportunity to be enrolled in the College in the High School program between Cedar Crest High School and Harrisburg University.

**Prerequisite:** Successful completion of Computer Science Foundations 1 with a final grade of B or higher in the course and on the culminating competency assessment.

# INTRODUCTION TO INFORMATION SYSTEMS CHS

(Grade 10,11,12) One Semester Course/.5 credit Businesses rely on data-driven information to thrive and succeed. Information systems provide the means and the medium to collect, store, safeguard, retrieve, share, analyze, and present the data; therefore, information systems play an important role in our modern world. Almost all services ranging from banking to travelling to complex healthcare applications exploit information systems for data manipulations. In this course, the core concepts of any information system, namely people, processes, and technology, are discussed, and their social and organizational roles are explored. In this course, an overview of fundamental concepts of information systems, definition of key terms and current trends, the role and importance of information and information systems for businesses and management, social and organizational implications, along with some applications of information systems are explored and discussed through lectures and case studies. Students have the opportunity to be enrolled in the College in the High School program between Cedar Crest High School and Harrisburg University.

# INTRODUCTION TO INTERNET, WEB TECHNOLOGIES CHS

(Grade 10,11,12) One Semester Course/.5 credit The main objective of this course is to introduce the current as well as emerging Internet and Web technologies that enable and drive the modern enterprises. The student is exposed to the key building blocks (enterprise applications, computing platforms, databases, and networks) of the modern Internet-Web infrastructure. Through experiments and examples, the main ideas of the Internet, the ISPs, wireless networks, Classical Web, Semantic Web, XML, Web 2.0, social networking, wireless web, and mobile apps are explained. The course exposes the student to the main aspects of web-based software development processes through simple hands-on projects. The student is introduced to the basic software concepts by developing simple web sites by using HML5 and CSS3 and then using Javascript, Java applets, XML and XSL to introduce more sophisticated features. The student also has an opportunity to develop a simple web portal that involves simple database queries by using SQL. Students have the opportunity to be enrolled in the College in the High School program between Cedar Crest High School and Harrisburg University.

**Prerequisite:** Proficient typing skills and at least a grade of B in algebra 1.

#### WEB TECHNOLOGIES CHS

(Grade 10,11,12) One Semester Course/.5 credit The student studies, explores and examines tools and technologies used in web applications and web services. Coursework is accomplished both individually and in teams to build, launch, and market a website for a community member or as a school project. Topics include HTML, CSS, Java and Java scripting, database, and SQL. **Students have the opportunity to be enrolled in the College in the High School program between Cedar Crest High School and Harrisburg University. Prerequisite: Successful completion of Introduction to Internet and Web Technologies with a grade of B or higher.** 

# Modern Language

## FRENCH 1

Full Year Course/1 Credit

Students will be able to engage in conversations and provide and obtain information, express feelings and emotions, and exchange opinions and information in French. Students will demonstrate an understanding of the nature of the language through comparisons of the French culture with their own.

## FRENCH 2

Full Year Course/1 Credit

Students will expand their conversational skills as well as their reading and writing skills in French. They will continue to compare and contrast their own culture with the French culture. **Prerequisite:** Completion of French 1 with a Cor higher.

#### FRENCH 3 HONORS

Full Year Course/1 Credit

Students will continue to expand their conversational skills as well as their reading and writing skills in French. They will continue to compare and contrast their own culture with the French culture. Students will communicate 85% of the time in French. The difference between levels is a matter of quantity and quality, not functional ability. **Prerequisite:** Completion of French 2 with a C- or higher and recommendation of teacher.

## FRENCH 4 HONORS

Full Year Course/1 Credit

Students will continue to expand their reading and writing skills as well as their conversational skills in French. Students will use their accumulated language skills to study French culture of the 20th century in this course. They will continue to compare and contrast their own culture with the French culture. The texts offer some of the most famous French authors. All literary genres are examined during the year. Students will communicate exclusively in French. **Prerequisite:** Completion of French 3 Honors with a C- or higher.

#### GERMAN 1

Full Year Course/1 Credit

Students will learn basic German vocabulary and use the vocabulary to communicate with one another in the German language. Students will be able to talk about themselves and express likes and dislikes in the German language. Ultimately, students will demonstrate an understanding of the German culture in comparison with their own.

#### GERMAN 2

Full Year Course/1 Credit

Students will expand their conversational skills as well as their reading and writing skills in German. Their vocabulary will increase and their grammar usage will be strengthened. Students will continue to learn about the many aspects of German culture. **Prerequisite:** Completion of German 1 with a C- or higher.

#### **GERMAN 3 HONORS**

## Full Year Course/1 Credit

Students will continue to expand their conversational skills as well as their reading and writing skills in German. They will continue to compare and contrast their own culture with the German culture. Students will communicate 85% of the time in German. The difference between levels is a matter of quantity and quality, not functional ability. **Prerequisite:** Completion of German 2 with a C- or higher and recommendation of teacher.

## GERMAN 4 HONORS

## LATIN 2

Full Year Course/1 Credit

As a continuation of Latin I, the course is designed to develop further facility in vocabulary, grammar, and syntax; to develop the ability to discern the gist of a passage independent of grammatical analysis; and to acquaint the student with the genius of the Roman institutions of law, government, and civic responsibility fundamental to the structure of Western civilization. **Prerequisite:** Completion of Latin 1 with a C- or higher.

## LATIN 3 HONORS

Full Year Course/1 Credit

This course is designed to enhance the students' vocabulary and linguistics skills; to develop greater precision of expression in the translation of extended cycles of readings; and to apply learnings in a variety of independent projects. **Prerequisite:** Completion of Latin 2 with a C- or higher.

## LATIN 4 HONORS

Full Year Course/1 Credit

Students will continue to enhance their vocabulary and linguistics skills, develop greater precision of expression in the translation of extended cycles of readings, and to apply learnings in a variety of individual projects. **Prerequisite:** Completion of Latin 3 with a C- or higher.

#### SPANISH 1

Full Year Course/1 Credit

Students will be able to engage in conversations and provide and obtain information, express feelings and emotions, and exchange opinions and information in Spanish. Students will demonstrate an understanding of the nature of the language through comparisons of the Hispanic cultures with their own.

## SPANISH 2

Full Year Course/1 Credit

Students will expand their conversational skills as well as their reading and writing skills in Spanish. They will continue to compare and contrast their own culture with the Hispanic cultures. **Prerequisite:** Completion of Spanish 1 with a C- or higher.

#### SPANISH 2 HONORS

Full Year Course/1 Credit

Students will expand their conversational skills as well as their listening comprehension skills, reading and writing skills in Spanish. This course is designed to better prepare students for Spanish 3-honors. Students will move at a more accelerated pace and will cover more vocabulary and grammar compared to the regular/college prep Spanish 2 course. **Prerequisite:** Completion of Spanish 1 with 89% or higher.

#### SPANISH 3 HONORS

#### Full year Course/1 Credit

Students will continue to expand their conversational skills as well as their reading and writing skills in Spanish. They will continue to compare and contrast their own culture with the Hispanic culture. Students will communicate 85% of the time in Spanish. The difference between levels is a matter of quantity and quality, not functional ability. Native Spanish speakers who wish to study Spanish will begin at this level. **Prerequisite:** Completion of Spanish 2 Honors with a C- or higher.

#### SPANISH 4 HONORS

Full Year Course/1 Credit

Students will continue to expand their reading and writing skills as well as their conversational skills in Spanish. They will continue to compare and contrast their own culture with the Hispanic cultures. Research and enrichment activities including interdisciplinary and computer projects will be required. Students will communicate exclusively in Spanish. **Prerequisite:** Completion of Spanish 3 with a C- or higher.

#### DISCRETE MATHEMATICS CHS

(Grade 10,11,12) One semester/.5 credit This course provides the computer science student with an understanding of multiple mathematical concepts and methods, which shape the foundation of modern information science in a form that is relevant and useful. Discrete mathematics plays a fundamental role for computer science, which is similar to that played by calculus for physics and engineering. Many concepts in computer science are best understood from a perspective that requires expertise with mathematical tools and certain reasoning skills associated with mathematical maturity. The topics covered draw on current material from several mathematical disciplines: graph theory, mathematical logic, and set theory. Students have the opportunity to be enrolled in the College in the High School program between Cedar Crest High School and Harrisburg University.

**Prerequisite:** Successful completion of Algebra 3 or higher.

#### Full Year Course/1 Credit

Students' ability to understand and communicate in German will be tested and challenged through daily instruction held exclusively in the German language. An emphasis will be placed upon building students' vocabulary and increasing their conversational skills. **Prerequisite:** Completion of German 3 with a C- or higher.

#### LATIN 1

#### Full Year Course/1 Credit

This course is designed to develop facility in vocabulary (with particular emphasis on English derivations from the Latin) and the orderly arrangements and expressions of ideas, to develop an appreciation of the culture transmitted to the Western world through the Latin language, and to acquaint the student with the numerous practical values that derive from Latin and classical study.

#### SPANISH 1 CHS

#### Full Year Course/1 Credit

This course combines content-based language instruction with an interactive task-based approach. Therefore, the entire course will be conducted in Spanish. Students will improve the four language skills (reading, writing, speaking and listening) through reading activities, compositions assignments, and short films. Students will expand their knowledge of the Spanish-speaking world and its people. **Students have the opportunity to be enrolled in the College in the High School program betweem Cedar Crest High School and the University of Pittsburgh.** 

**Prerequisite** – 3 years of Spanish. To be taken as an alternative to honors Spanish 4.

# Music

### CHORUS

(Grade 9, 10, 11, 12) Full Year Course/ .5 Credit The Cedar Crest High School Choruses (Blue and Gray) are for students that possess an interest in choral music performance. After a student elects this course, his/her voice will be assessed for proper voice and chorus assignment (Blue or Gray). Blue Chorus is a mixed ensemble (men & women) for students in grades 9-12. Gray Chorus is a women's choir for students in grades 9-12. Vocal production, diction, sight- reading and instruction of varied repertoire are the vital components of these courses. Attendance is required for the December and May concerts as well as at dress rehearsals. Students will receive a Choral Music Handbook at the beginning of the year which will present all mandatory dates, course expectations, and excused absences from a rehearsals or performances for school-related activities. One unexcused absence from a performance will result in a drop in grade by one letter grade. All formal attire for concerts (except shirt/blouse and shoes) is provided by the school. Students must hold membership in either the Blue or Gray Chorus to be eligible to audition for Concert Choir or Show Choir.

#### CONCERT CHOIR

(Grade 9, 10, 11, 12) Full Year Course/ .5 Credit The Cedar Crest High School Concert Choir is a vocal ensemble for students who desire to study choral music at a higher level of difficulty. Members of this choir are selected through a yearly audition process in the spring for the following year. A student must be enrolled in Blue or Gray Chorus to be eligible to audition for this choir. Concert Choir will perform challenging repertoire encompassing many different styles with an emphasis on a cappella literature. In addition to performing at the December and May concerts, the Concert Choir serves as the traveling choir for civic and community performances and may participate in adjudications/clinics to further their understanding of quality choral technique.

#### JAZZ BAND

(Grade 9, 10, 11, 12) One Semester Course/.5 Credit Membership in the CCHS Jazz Band is through a yearly audition only. All wind and percussion students must first be a member of the Sym phonic Band to qualify for Jazz Band membership. Guitar, bass, and piano players are required to receive permission from the Band Director before they audition. The Jazz Band performs several concerts in the spring semester. Improvisation will be an integral part of this course, as will the theory behind the improvised solo. In addition, various styles of jazz will be explored and experienced. Rehearsals for Jazz Band will be held outside of the school day during a weekday evening.

#### MUSIC APPRECIATION

(Grade 9, 10) One Semester/ .5 Credit

We are surrounded by sound almost every moment of our lives. In this class, for both listener and performer alike, we will study how music differs from noise, the many musics of the world and their influence on our music, and how we can all become good critics and consumers of the music around us. We will use music of all time periods, including contemporary pop music, and all places, far and near.

#### MUSIC THEORY

(Grade 10,11,12) One Semester Course/ .5 Credit Music theory is the analysis of harmonic structure and progression as well as melodic and rhythmic composition. It involves notation, key signatures, interval studies, analyzation of chord structure and progression, arranging and composing. Students are required to sing in a group setting, and should have a basic knowledge of the piano keyboard. This course is specifically designed to help students prepare for college placement exams in music theory, which is required of most music majors entering into a four-year degree. Prerequisite: Successful completion of at least one year of band or chorus. All other students must receive permission from the instructor to enroll in this course.

in Blue or Gray Chorus to be eligible to audition for this choir. Repertoire for this group will consist of contemporary music including Broadway, jazz, and popular songs. In addition to performing at the December and May concerts, the Show Choir will perform for civic and community events and may participate in adjudications/ clinics to further their understanding of quality vocal technique and showmanship. Rehearsals for Show Choir will be held outside of the school day on Tuesday and Thursday mornings from 7 to 7:45 a.m.

#### SYMPHONIC BAND

(Grade 9, 10, 11, 12) Full Year Course/ 1/2 Credit Open to any student in grades 9-12 with previous experience on a band instrument, or upon approval of the Band Director. Marching Band is a requirement of this course and serves as part of the total Band experience. The Marching Band will perform at all varsity football games, as well as a minimum of two exhibitions during the fall and two parades throughout the year. Band Camp (late July-early August) is mandatory for all members. The Band will rehearse every other day during the school year for one class period. Extra rehearsals outside of the school day will be required during the Marching Band season. All performances of the band are mandatory. One unexcused absence from a performance will result in a drop in grade by two letter grades. Students will receive a handbook and syllabus that describes in detail all of the rehearsal and performance requirements of the band, including excused absences from a rehearsal or performance for school related activities. All formal attire for concerts (except shirt/blouse and shoes) is provided by the school. This ensemble will also travel to perform at several performance adjudications/clinics each year. Students must hold membership in the Symphonic Band to be eligible for Wind Ensemble, wind section of the orchestra, and/or Jazz Band.

#### WIND ENSEMBLE

(Grade 9, 10, 11, 12) Full Year Course/.5 Credit Members of this ensemble are selected through a yearly audition of those students already enrolled in Band. Instrumentation is more limited than in Concert Band, greatly emphasizing each individual's contribution to the ensemble. Students interested in Wind Ensemble should demonstrate above average musicianship and a willingness to serve as the wind section of the CCHS Orchestra. This ensemble will also travel to perform at several performance adjudications each year.

# Science

#### ADVANCED TOPICS IN BIOLOGY

(Grade 11, 12) One Semester Course/.5 Credit This honors level course is designed to be taken in conjunction with the HACC Biology class or as a stand-alone elective science class. During this semester course, students will have the opportunity to explore current trends in biotechnology including stem cells, gene therapy, cloning and personalized medicine. Students will also explore the impact that biology has on forensic science. Human body systems will be briefly discussed followed by a dissection.

#### **AP BIOLOGY**

(Grade 10, 11, 12) Full Year Course/1 Credit The AP Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. It is designed to be taken by students after the successful completion of a first course in high school biology. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. **Students are required to take the AP Biology exam as scheduled by the College Board.**  mental Science class. We will learn about the diverse forms of life on earth; and how to preserve the land, water and atmosphere where life exists. How can humans positively, and negatively, impact the environment? How can we solve the environmental problems that affect the world today? How can we work toward sustainability? Basic algebra/math will be used in various units of study. **Students are required to take the AP Environmental Science exam as scheduled by the College Board. Prerequisite:** At least a B- average in Honors Biology; or A- averagein CP Biology.

#### **AP PHYSICS 1**

(Grade 10, 11, 12) Full Year Course/1 Credit

AP Physics 1 is a first year physics course equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits. **Students are required to take the AP Physics exam as scheduled by the College Board. Prerequisites:** Minimum math needed is Math Survey or Pre-Calculus which can be taken concurrently; A- in Chemistry CP or B- in Chemistry Honors or can be taken concurrently.

#### **AP PHYSICS 2**

(Grade 11, 12) Full Year Course/1 Credit

AP Physics 2 is a physics course equivalent to a second-semester college course in algebra-based physics. Students deepen their understanding of Physics through inquiry-based investigations as they explore topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics. **Students are required to take the AP Physics exam as scheduled by the College Board.** 

**Prerequisites:** Minimum math needed is Math Survey or Pre-Calculus which can be taken concurrently; B- in AP Physics 1, B in Honors Physics or an A- in CP Physics.

#### AP PHYSICS C

(Grade 11, 12) Full Year Course/1 Credit

AP Physics C is the calculus-based course equivalent to the first year of college physics for students majoring in the physical sciences or engineering. Time will be spent on the topics of Newtonian Mechanics (50%) and Electricity & Magnetism (50%) with emphasis on problem solving strategies. **Students are required to take the AP Physics Exam as scheduled by the College Board.** 

**Prerequisite:** Successful completion of AP Physics 1 or Honors Physics with at least a B- or CP Physics with at least an A-.

#### ASTRONOMY

(Grade 10,11,12) One Semester Course/.5 Credit In this introductory astronomy course, students will be introduced to the local astronomical neighborhood. While discovering how our understanding of the universe has changed since the dawn of ancient astronomy, students will learn about constellations, the sky and its motions, the cycles of the sun and moon, gravity, the solar system, and space exploration. This course is lab intensive and features extensive use of the planetarium.

#### BIOLOGY

(Grade 9) Full Year Course / 1 credit

Biology is a course designed to focus on the eligible content for the Biology Keystone exam. The emphasis on this class will cover "Cells and Cell Processes" and the "Continuity and Unity of Life". Various labs and activities will be used to animal kingdom, human body systems, and ecological issues. The course will include a variety of activities, labs, and dissections that will enhance student understanding of Biological topics. Bio 2 is an ideal course for, but is not limited to, students who plan to pursue a career in the medical, environmental, agricultural, or other science related fields, and for students who have an interest in science.

#### CHEMISTRY

(Grade 10, 11, 12) Full Year Course/1 Credit Chemistry is important in everyone's life. This course emphasizes the practical nature of chemistry with less emphasis on math than Chemistry 1 CP. Since many occupations involve chemical concepts, it is important to everyone to have a basic knowledge of chemistry. Chemical principles will be introduced and then applied to chemical reactions, periodic trends, organic chemistry, gases, and nuclear chemistry.

#### CHEMISTRY 1 COLLEGE PREP

(Grade 10, 11, 12) Full Year Course/1 Credit

This course is designed for students planning to take chemistry as science or non-science majors. Emphasis is placed on the factor-label method for problem solving, periodic trends, atomic structure, stoichiometry, chemical nomenclature, equation writing, and the gas laws. Lab work is an important part of the course. Students must have a firm grasp of basic algebra concepts. **Prerequisite:** can be taken concurrently with Algebra 2 CP.

#### **CHEMISTRY 1 HONORS**

(Grade 9, 10, 11, 12) Full Year Course/1 Credit This course is designed for students with strong math skills planning to take college chemistry as science or non-science majors. Emphasis is placed on the factor label method for problem solving, atomic structure, electron configurations, quantum numbers, chemical nomenclature, stoichiometry, and other advanced topics. Lab work is an important part of the course with an emphasis on writing formal lab reports. **Prerequisite:** Should be taken concurrently with Algebra 2 Honors. Students taking Algebra 2 CP concurrently should have the recommendation of the biology teacher. Also, a B- average in Biology Honors or an A- average in Biology CP. Biology Honors can be taken concurrently.

## CHEMISTRY 2 HONORS

(Grade 11) Full Year Course/1 Credit

Chemistry 2 is a continuation of Chemistry 1. It is recommended but not limited to students planning a college major in any physical or biological science, medicine or any medical-related field in areas such as nursing or physical therapy, and any field involving engineering. The course involves in-depth lab work and covers topics such as kinetics, equilibrium, oxidation-reduction, acid base theory, and an introduction to organic chemistry. **Prerequisites:** B- in Chemistry 1 CP or recommendation by a teacher.

#### DEEP SPACE ASTRONOMY

(Grade 10,11,12) One Semester Course/.5 Credit In this advanced course of study, students will pursue the study of astronomy beyond the solar system by covering topics that include nebulae, stars, stellar evolution and death (e.g. black holes), galaxies, quasars, Big Bang Theory, and the structure of the universe. Students will also learn about current space missions and cutting edge research in the field of astronomy. This course will include additional planetarium use and time for discussion/debate about current astronomical events and/or research.

#### GEOLOGY

(Grade 10,11,12) One Semester Course/.5 Credit This course introduces students to a variety of physical and historical geology topics in a lab intensive and hands on approach. Students will learn to think like geologists as they use evidence found in rocks and landscapes to determine the geologic story of an area over millions of years. Major topics of study include rock formation, rock and mineral identification, plate tectonics, earthquakes, volcanoes, fossils, the fossil record, the geologic timescale, and topographic maps.

#### ORCHESTRA

(Grade 9, 10, 11, 12) Full Year Course/ .5 Credit The orchestra is open to any student having prior experience on a string instrument, or upon the approval of the director. Wind and percussion players are chosen directly out of the Wind Ensemble. This group performs three concerts each year in October, December, and May. A wide variety of literature will be explored with an emphasis on specific string techniques.

#### SHOW CHOIR

(Grade 9, 10, 11, 12) Full Year Course/.5 Credit The Cedar Crest High School Show Choir is a vocal ensemble for students that combines choral music performance with choreography. Members of this choir are selected through a yearly audition process in the spring for the following year. The audition process will include vocal and dance evaluations. A student must be enrolled **Prerequisite:** B- average in Biology Honors or A-average in Biology CP.

#### **AP CHEMISTRY**

(Grade 11, 12) Full Year Course/1 Credit

This Advanced Placement (AP) course in science consists of a full high school academic year of work in chemistry that is comparable to courses in colleges and universities. It is expected that students who take an AP course in chemistry will seek college credit, college placement, or both, from institutions of higher learning. The majority of the year will be devoted to a rigorous study of such topics as kinetics, equilibrium, oxidation reduction, acid base theory and other concepts found on the AP Exam. The course involves in-depth lab work as well. **Students are required to take the AP Chemistry exam as scheduled by the College Board.** 

**Prerequisite:** B- in Chemistry 1 Honors, A- in Chemistry 1 CP.

#### AP ENVRIONMENTAL SCIENCE

(Grade 10, 11, 12) Full Year Course/ 1 Credit Come explore our amazing planet! The AP Environmental Science course is designed to be the equivalent of a college introductory Environhelp students visualize and understand the specific biological concepts.

#### **BIOLOGY 1 COLLEGE PREP**

(Grade 9, 10) Full Year Course/1 Credit

This biology course is designed to prepare students to pass the Keystone Exam in Biology. Many areas of biology will be presented in the class including Cells and Processes and the Community and Unity of Life. Labs will help the students visualize and understand the scientific concepts presented.

#### **BIOLOGY 1 HONORS**

#### (Grade 9, 10) Full Year Course/1 Credit

Honors Biology is an academically challenging class that will prepare students to pass the Keystone Exam in Biology. Curriculum content will focus on Cells and Cell Processes and the Community and Unity of Life. Various labs and activities will be used to help students visualize and understand the specific concepts presented. **Prerequisite:** Successful completion of eighth grade honors science with at least a B- or successful completion of eighth grade academic science with an A-.

#### **BIOLOGY 2 COLLEGE PREP**

(Grade 10, 11, 12) Full Year Course/1 Credit Biology 2 is a class that covers the topics of the

#### INTRO TO HUMAN BIOLOGY CHS

(Grade 12) One Semester Course/ .5 Credit

This Honors/AP level course is designed for students ready for a fast-paced, introductory college anatomy & physiology course. This course explores basic biological principles by studying the structure and function of the human body with a focus on body systems. This course emphasizes homeostasis, the relationship of anatomy and physiology at all levels of biological organization, and the demonstration of life processes through the normal functioning of body systems. Students have the opportunity to be enrolled in the College in the High School program between Cedar Crest High School and Harrisburg Area Community College, for which students must qualify through placement testing. Three (3) college credits through HACC will be awarded to students who successfully complete this course with a grade C or higher.

#### **CONTINUED ON PAGE 16**

# **Science**

#### **CONTINUED FROM PAGE 15**

#### **KEYSTONE PREP BIOLOGY**

(Grade 11) One Semester Course/ .5 Credit This course is required for all students who have not achieved a score of proficient or advanced on the Biology Keystone Exam by the conclusion of their 10th grade year. Topics in this course will review the Keystone eligible content and anchors from the Biology 1 course. Successful completion of this course will lead to meeting state and local requirements for graduation related to the completion of the Biology Keystone Exam. Prerequisite: Basic or Below Basic on the Biology Keystone Exam.

#### METEOROLOGY

(Grade 10,11,12) One Semester Course/ .5 Credit Meteorology is the study of Earth's weather, atmosphere, and climate. In this introductory course, major topics of study include factors that affect weather, weather forecasting, clouds and precipitation, structure of the atmosphere, energy transfer and the cause of wind, storm systems/fronts, severe weather, and climate change. Class work is lab intensive and requires the ability to analyze large sets of data. Students will also have the opportunity to develop their own questions about meteorology that becomes a part of the course curriculum.

#### OCEANOGRAPHY

(Grade 10,11,12) One Semester Course/.5 Credit Earth's ocean provides humans with oxygen to breathe, food to consume, and the means to transport almost every product we depend on. In this course, students will gain a better appreciation of the ocean's importance by studying topics such as ocean basin topography, properties of seawater, ocean circulation, waves, tsunami, beaches, tides, and marine ecosystems. Throughout the course, special focus is given to the preservation and conservation of marine resources. Classes will include a mix of lab activities, discussion, and research.

#### PHYSICS COLLEGE PREP

(Grade 10, 11, 12) Full Year Course/ 1 Credit The following topics are covered: kinematics, a study of motion of bodies; dynamics, the study of why objects move the way they do; celestial motion; the various forms of energy; light and electromagnetism; and an introduction to the atom's structure and quantum theory. Prerequisite: Minimum math needed is Algebra 2 CP and

Chemistry 1 CP which can be taken concurrently.

#### PHYSICS HONORS

(Grade 10, 11, 12) Full Year Course/1 Credit This course includes the following: kinematics, which is a study of motion of bodies; mechanics (the various forms of energy); electromagnetism; waves; heat and thermodynamics; and clear physics topics. Prerequisites: Minimum math needed is Math Survey or Pre-Calculus which can be taken concurrently; A- in Chemistry CP or B- in Chemistry Honors or can be taken concurrently.

#### **PHYSICS 2 COLLEGE PREP**

(Grade 12) One Semester Course/ .5 Credit Physics 2 is a half-year course designed to cover a variety of topics which may include waves, sound, light, magnetism, relativity, and nuclear physics. Prerequisite: Principles of Physics, CP Physics, Honors Physics, or AP Physics 1.

#### PRINCIPLES OF PHYSICS

(Grade 10, 11, 12) Full Year Course/1 Credit This applied physics course provides an understanding of the concepts of force, work, rate, resistance, energy and power as they relate to mechanical, fluid, electrical and thermal systems. The concepts covered allow students to apply scientific principles to practical situations using a hands-on laboratory experience, along with an understanding of the mathematics necessary to solve technical problems.

# **Social Studies**

## AMERICAN CULTURES

(Grades 9, 10) Full Year Course / 1 Credit American Culture 2 is the first of two full-year courses designed to thoroughly familiarize students with the history and culture of the United States. A chronological history of the United States will be studied from World War I to the present day.

#### AMERICAN CULTURES COLLEGE PREP

(Grades 9, 10) Full Year Course/1 Credit American Culture 2 is the second of two full-year courses designed to thoroughly familiarize students with the geography, history, and culture of the United States. This course is a chronological study of U.S. history from World War I to the present day. Special emphasis will be placed on comparing events of the past to contemporary problems. The depth and scope of the course is designed for students preparing for college.

## **AMERICAN CULTURES HONORS**

(Grades 9, 10) Full Year Course/1 Credit American Culture 2 is the second of two full-year courses designed to thoroughly familiarize students with the geography, history, and culture of the United States. This course is a chronological study of U.S. history from World War I to the present day. Special emphasis will be placed on comparing events of the past to contemporary problems. The depth and scope of the course is designed for students preparing for college. Enrichment activities will be presented and independent, in-depth research projects will be required.

#### AMERICAN HISTORY THROUGH FILM

(Grade 11, 12) One Semester Course / .5 Credit American History through Film is a semester-long course during which students watch a varietyof historical films, each dedicated to an event, person, or era of American history. Prior to watching the films, students learn about the geographic and historic factors that combined to create the basis of the film. Using various resources, students create a framework for understanding the area and time period of the film. After watching the film, students participate in activities requiring research, writing, and presentation skills to evaluate the film in comparison to the actual events. The goal for this course is to evaluate historical truths and inaccuracies throughout the various films, and to write comparative analyses for their findings. The midterm

and final for the class is project based, and incorporates students' work to that point of class.

## AMERICAN POP CULTURE

(Grade 11, 12) One Semester Course / .5 Credit This course critically analyzes periods of American history and concentrate on the culture of those specific times. The course progresses chronologically by decade starting with the Roaring 1920s and finishing with today's age of social media. Popular culture analysis is studied in a variety of different disciplines, including, history, American studies, cultural studies, ethnic studies, and sociology. The course primarily focuses on film, television, popular music, radio, advertising, and social media/cyberculture. The class analyzes how critical factors like gender, race, social class, age, sexuality, and politics/ government are shaped by and reshaped in popular culture. The class consists of lectures, readings, hands-on projects, and writing assignments. This course makes particularly strong usage of music, images, media clips and websites during class discussions.

## **AP EUROPEAN HISTORY**

#### (Grade 11, 12) Full Year Course/1 Credit

#### **AP HUMAN GEOGRAPHY**

(Grade 10, 11, 12) Full Year Course/1 Credit The goal of the AP course in Human Geography is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also will learn about the methods and tools geographers use in their science and practice. This course is of value to students with an interest in a career in liberal arts or the social sciences. Students who do not complete/turn in summer reading assignments will be given a zero without an opportunity to make up the work. This course may be taken instead of World Cultures in Grade 11; however, this course may not be taken in place of Government and Economics in Grade 12. Students are required to take the AP Human Geography exam as scheduled by the College Board.

#### AP PSYCHOLOGY CHS

(Grade 11, 12) One Year Course/1 Credit Advanced placement/ College in the High School Psychology is a full year course that will covermaterial usually taught in an introductory college psychology course and is part of the College in the High School program with the University of Pittsburgh. The course will introduce andreinforce the systematic and scientific study of behavior and thinking, including the history of psychology, methods of research, biopsychology, learning, development, intelligence, personality theories, abnormal and social psychology. Students may choose to take this course for College in the High School Credit through the University of Pittsburgh or must take the AP Psychology exam as scheduled by the College Board. Students taking the course through the university will receive a fee waiver if they choose to apply for admission to the University of Pittsburgh.

#### AP MACROECONOMICS

(Grade 12) Full Year Course/1 Credit

Advanced placement macroeconomics is a full year course that includes the study of the principles of economics that apply to an economic system as a whole. The course places a particular emphasis on the study of national income and price-level determination, and also develops students' knowledge of economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. This course is equivalent to an introductory college level course. Students will be required to purchase supplemental materials. Students are required to take the AP Macroeconomics exam as scheduled by the College Board.

#### **AP U.S. GOVERNMENT AND POLITICS** (Grade 12) Full Year Course/1 Credit

Advanced placement U.S. government and politics is a full year course that includes the study of general concepts used to interpret the U.S. government and politics with the analysis of specific examples. Students will learn about the various institutions, groups, beliefs and ideas that constitute U.S. government and politics. The course will provide students an opportunity to understand the typical patterns of political processes and behavior and their consequences. This course is equivalent to an introductory college level course. Students are required to take the AP U.S. Government and Politics exam as scheduled by the College Board.

#### AP U.S. HISTORY

(Grade 9, 10, 11, 12) Full Year Course/1 Credit This course offers a challenging and beneficial area of study for AP students. This course is made up of a chronological study from colonization to the present day. The course will be of particular value to students interested in careers in liberal arts or social sciences. In addition to the course itself, students can expect several reading and writing assignments to complete over the summer break, as well as a test on those assignments to be taken the second day of the class in the fall. Throughout the year, work in the class will revolve around preparing for the multiple choice and written section of the AP U.S. History exam. Students are required to take the AP U.S. History exam as scheduled by the College Board.

#### ECONOMICS COLLEGE PREP

(Grade 12) One Semester Course/ .5 Credit

This is a semester course that will concentrate on the American economic system. The course will cover topics in both micro and macroeconomics, with a special emphasis on macroeconomics. Topics covered will include basic economic principles, economic systems, supply and demand, prices and competition, business organization, national income accounting, fiscal and monetary policy and international economics.

## ECONOMICS HONORS

(Grade 12) One Semester Course/ .5 Credit This is a semester course that will concentrate on the American economic system. The course will cover topics in both micro and macroeconomics, with a special emphasis on macroeconomics. Topics covered will include basic economic principles, economic systems, supply and demand, prices and competition, business organization, national income accounting, fiscal and monetary policy and international economics. Enrichment activities will be presented and independent projects may be required.

#### **GOVERNMENT COLLEGE PREP**

(Grade 12) One Semester Course/ .5 Credit This is a semester course that will concentrate on American government. Topics to be studied include foundations of government, the structure of federal, state, and local government, and political science topics such as political parties, political behavior, interest groups, and the electoral process.

#### **GOVERNMENT HONORS**

#### (Grade 12) One Semester Course/.5 Credit

This is a semester course that will concentrate on American government. Topics to be studied include foundations of government, the structure of federal, state, and local government, and political science topics such as political parties, political behavior, interest groups, and the electoral process. Enrichment activities will be presented and independent projects may be required.

#### **HISTORY OF PHILOSOPHY**

(Grade 11, 12) One Semester Course/ .5 credit This survey course explores the historical development of our understanding of the nature of existence, reality, knowledge, and our common humanity. Students learn about the historical conditions leading to and influenced by major schools of thought from antiquity to the present. Exploration of select philosophical texts, problems and ideas enrichen the history of human thought. Students apply their previous knowledge of history to understand the context for intellectual curiosity that influenced humanity. Initial focus is on the history of philosophy (from pre-Socratic thinkers through Renaissance philosophers) before exploring contemporary era (Enlightenment to modern thought). Students gain understanding of the historical development of human thought through primary and secondary resources. The course emphasizes reading and writing, along with individual and group projects.

#### INTERNATIONAL RELATIONS

(Grade 11, 12) One Semester Course/ .5 credit Students taking International Relations receive a framework for studying the complexities of timely international issues and examining United States foreign policy. In this course, students pay close attention to current events, global problems such as: human rights, poverty, environmental concerns, diversity issues, terrorism and their historical context. The goal is for stimulated thinking about events that take place outside of more than just our community and how these events impact our country and world.

#### THINKING GREEN: CONNECTING WITH THE EN-VIRONMENT

(Grade 11, 12) One Semester Course / .5 credit Community Science uses a hands-on approach to promote learning through physically

accomplishing tasks while utilizing scientific skills. One must be able and willing to do physical labor outdoors/indoors and not be afraid to work and to get dirty. The course focuses on environmental science aspects, but also brings biology, chemistry, and physics into problem solving. This is a project-based, goal-oriented course but does have formative and summative assessments (a.k.a. "tests and quizzes"). This course is for all levels of learners and is offered to 11th and 12th grade students who passed both biology and chemistry. If you decide to take this course, be ready to think, learn, connect, collaborate, and to make our campus a better place to be.

Advanced Placement European History is a yearlong, college-level course that examines European history from the time of the Renaissance and Reformation up to the present day. The course's themes are: cultural and intellectual history, political and diplomatic history, and social and economic history of the continent. This class provides students with an academic experience equivalent to a freshman college survey course of western history. In addition to course content, the course is specifically designed to enhance student analytical reading and essay writing skills. This course is of particular interest to students interested in liberal arts or social sciences careers. Students passing the advanced placement exam in the spring may receive college credit for the course. Students who do not complete/turn in summer reading assignments will be given a zero without an opportunity to make up the work. This course is an elective so students must take the social studies course requirement for their grade. Students are required to take the AP European History exam as scheduled by the College Board.

#### CLASSICAL WORLDS

(Grade 11, 12) One Semester Course / .5 Credit Classical Studies provides an enriching view of the historical periods of classical Greece and the Ancient Roman Republic and Empire. The course will be one semester in duration. The first half will consist of an 8 1/2 week study of Ancient Greece, the second half will consist of the Ancient Roman Republic and Empire. Students explore these topics through a multitude of primary sources related to each theme of study, as well as secondary readings provided by the instructor. Assessments and short essays conclude each theme, with a marking period exam to finalize each area of study.

#### PSYCHOLOGY

(Grade 11, 12) One Semester Course/ .5 Credit This course is concerned with the study of individual behavior. Investigation of behavior, development, abnormal behaviors, and methods of adaptation will be considered. This course is open as an elective to juniors and seniors interested in understanding behavior. This course may not be taken in place of World Cultures or Government.

#### SOCIOLOGY

(Grade 11, 12) One Semester Course/ .5 Credit Sociology is the science that studies human relationships. Students will discover the elements that make up their society, as well as be exposed to various other societies of the world. The interaction of these differing groups will be the focus of much of the course. Open to juniors and seniors with an interest in this area, as an elective. This course may not be taken in place of World Cultures or Government.

#### WESTERN CIVILIZATION II CHS

(Grade 11, 12) Full Year Course/1 Credit This is an introductory-level course in Western European History that handles topics from the Scientific Revolution to the Cold War. It provides a framework for those who will continue in the study of History or to enter college with a solid historical knowledge of Europe's history and contributions. This course will introduce major guestions of historical process and emphasize chronological, comparative, and contextual reasoning and the construction of original arguments grounded in historical evidence. Each student will encounter and engage secondary and primary sources, assigned regularly throughout the course. They will participate in detailed discussions and debates about these sources. They should conduct independent research and develop original arguments to present verbally and/or in written form. Formal evaluations consist mainly of essay-based quizzes, midterms and a final exam. In all cases, students work to assimilate the different types of historical evidence and to develop their own interpretive analyses. Students have the opportunity to be enrolled in the College in the High School program between Cedar Crest High School and the University of Pittsburgh.

#### WORLD CULTURES EASTERN

(Grade 10, 11) One Semester Course / .5 credit World Cultures includes the total way of living of a people - their geography, history, religions, values, social organization, creative arts, political, and economics systems. A study of the historical background will be included to provide support for the understanding of the development of present economic, social and political institutions in these areas Africa, Middle East, India, Asia.

#### WORLD CULTURES WESTERN

(Grade 10, 11) One Semester Course / .5 credit World Cultures includes the total way of living of a people - their geography, history, religions, values, social organization, creative arts, political, and economics systems. A study of the historical background will be included to provide support for the understanding of the development of present economic, social and political institutions in these areas Latin America, Russia, Eastern Europe, Western Europe, and Oceania.

#### WORLD CULTURES EASTERN COLLEGE PREP

(Grade 10, 11) One Semester Course / .5 credit World Cultures includes the total way of living of a people - their geography, history, religions, values, social organization, creative arts, political, and economics systems. A study of the historical background will be included to provide support for the understanding of the development of present economic, social and political institutions in these areas Africa, Middle East, India, Asia

#### WORLD CULTURES WESTERN COLLEGE PREP

(Grade 10, 11) One Semester Course / .5 credit World Cultures includes the total way of living of a people - their geography, history, religions, values, social organization, creative arts, political, and economics systems. A study of the historical background will be included to provide support for the understanding of the development of present economic, social and political institutions in these areas Latin America, Russia, Eastern Europe, Western Europe, and Oceania.

#### WORLD CULTURES EASTERN HONORS

(Grade 10, 11) One Semester Course / .5 credit World Cultures includes the total way of living of a people - their geography, history, religions, values, social organization, creative arts, political, and economics systems. A study of the historical background will be included to provide support for the understanding of the development of present economic, social and political institutions in these areas Africa, Mid East, India, Southeast Asia, and East Asia. Enrichment activities will be presented. Independent, indepth research projects will be required, along with substantial additional outside readings. Using a thematic approach, the course observes the political, economic, social and cultural characteristics of the various regional groups chosen for study. Important ideas, significant persons and world views are described in the context of each theme. Students have the opportunity to be enrolled in the College in the High School program between Cedar Crest High School and HACC.

#### WORLD HISTORY 2 CHS

#### (Grade 12) One Semester Course/ .5 Credit

An overview of the historical development and interrelationships of the civilizations, or population centers of the world, from 1500 to the present. The course examines political, economic, social and cultural themes by emphasizing the important ideas, significant persons and world views described within the context of each civilization. **Students have the opportunity to be enrolled in the College in the High School program between Cedar Crest High School and HACC.** 

# Technology

#### ARCHITECTURAL DRAFTING CADD 1

(Grade 9-12) One Semester Course/ .5 Credit This course provides development of knowledge and skills in architectural drawing as related to residential home construction. CADD technology will be used in the production of all the plates.

#### ARCHITECTURAL DRAFTING CADD 2

(Grade 10,11,12) One Semester Course/ .5 Credit This course is a continuation of Arch. Drafting CADD 1 where students will build upon their knowledge of interior house design. This course will not only allow students to refine their house design techniques, but will focus on other areas of importance like outdoor living areas, site development plans, plot plans, topography, landscaping, environmental design factors, framing systems and foundation plan development. Students will use the Chief Architect design software to complete most assignments for the course. **Prerequisite:** Architectural Drafting CADD 1.

#### DIY HOME IMPROVEMENT

(Grade 9, 10, 11, 12) One Semester Course/.5 credit This course will address situations you may encounter as a homeowner, renter, or a career in construction. Topics in this course will include: plumbing, framing, electrical, drywall, exterior surfaces, roofing, flooring, and construction.

#### ENGINEERING DESIGN 1

(Grade 9,10,11,12) One Semester Course/.5 Credit The purpose of this course is to teach students the basic concepts of engineering and design. Students will be exposed to a battery of different styles of mechanical and technical drafting methods which include both traditional and computer drafting techniques. After students learn the basics of drafting, they will be engaged in small design challenges where they will design solutions to fit a specific need. Students will use a 3D modeling software called SolidWorks to design their solutions. This course is highly recommended for any student enrolled in the Engineering Academy at CCHS. This course is a prerequisite for Engineering/Design 2.

#### ENGINEERING DESIGN 2

(Grade 9,10,11,12) One Semester Course/.5 Credit This course is designed to allow students to build on the foundation of knowledge and experiences they gained in Engineering Design 1. The first portion of this course takes students through the design process of creating advanced machine parts using a solid modeling software called SolidWorks. The second half of this course focuses on students solving intermediate level engineering design challenges based on real world problems. These challenges give students the ability to use their problem solving and design skills to create unique solutions to solve the problem they are presented with. This hands-on course uses current technology to teach engineering concepts and is highly recommended for any student enrolled in the Engineering Academy at CCHS. Prerequisite: Engineering Design 1.

#### **GRAPHIC DESIGN**

(Grade 11, 12) One Semester Course/.5 Credit Graphic Design will explore computer generated page design. Core activities will involve combining text and images to solve visual problems using Photoshop and In Design. Students will use basic design principles, typography, images and color to create informative or persuasive visual products. All projects will reflect real world applications. **Prerequisite:** Successful completion of Visual Communications 1 and Visual Communications 2.

#### INTRODUCTION TO TECHNOLOGY AND PROB-LEM SOLVING

(Grade 9) One Semester Course/ .5 Credit

This module-based program allows students to explore technology and the six steps of problem solving. The course covers the communications, manufacturing, transportation, construction, and energy areas of engineering through hands-on activities. Modules cover topics such as, scale drawing, CO2 dragsters, balsa wood gliders, bridge building, along with other activities. Each project allows students to improve their problem-solving skills, which can be used in other areas of education and in everyday decision-making.

#### PHOTOGRAPHY 1

(Grade 9,10,11,12) One Semester Course/.5 Credit Basic photography will provide a general overview of the equipment and processes required for traditional black and white photography. Camera operations, darkroom process, film processing, and enlarging will be covered. Through a hands-on approach, students will learn photographic composition, advanced camera control, and photographic effects. LAB FEE: \$30 PER STUDENT.

#### PHOTOGRAPHY 2/DIGITAL PHOTOGRAPHY

(Grade 10,11,12) One Semester Course/.5 Credit Students will explore advanced techniques in shooting and editing digital photographs. Students will create and maintain digital photo albums, enrich their understanding of composition, use Photoshop techniques to edit and manipulate digital images. LAB FEE: \$30 PER STUDENT. Prerequisite: Successful completion of Photography 1.

#### **POLYMERS & PLASTICS TECHNOLOGY**

(Grade 10, 11, 12) One semester/.5 credit This course will explore the dynamic field of polymers and plastics. Students will complete hands-on activities using vacuum forming, 3-D printing, injection molding, 2-art foam, blow molding, and carbon-fiber/kevlar composites.

#### TECHNOLOGY SEMINAR

(Grade 9,10,11,12) One Semester Course/ .5 Credit This seminar introduces students to the concept of engineering, design, and problem solving. The format of the course will have students working in both individual and team-based environments. Students will research, design, build, and test solutions to real world problems that will come in the form of a "Design Challenge." Students will learn how to carry out individual responsibilities within a group in order to reach a common goal. Communication, collaboration, and teamwork skills will be key to the success of each student taking this course. Math, science, and English skills will be reinforced heavily throughout this course. The goal is to have fun while learning how to problem solve!

#### VISUAL COMMUNICATIONS 1

(Grade 9,10,11,12) One Semester Course/.5 Credit An exploratory course in the diverse field of visual communications where students will actively participate in desktop publishing, book binding, embroidery, screen printing, offset printing and flexography (rubber stamp).

#### VISUAL COMMUNICATIONS 2

#### WOOD 1

(Grade 9,10,11,12) One Semester Course/.5 Credit This course is designed to introduce the student to the woodworking field. Students will learn the basic operations and processes used in woodworking. Through a hands-on approach, the student will learn to use both hand and power tools safely to complete several projects.

#### WOOD 2

(Grade 9,10,11,12) One Semester Course/.5 Credit In this course, the students will expand their woodworking skills that were acquired in the introductory woodworking class. Students will be more involved in the planning of the project to be completed. The project will include the following: panel fabrication, face frame construction, drawer construction, assembly and finishing techniques. The course will also look at the different careers in this industry. There will be a lab fee adjusted to the student's project. **Prerequisite:** Successful completion of Wood 1.

#### WOOD 3

(Grade 10,11,12) One Semester Course/.5 Credit In this course, the students will build upon the skills and knowledge obtained in the previous woodworking classes. Students will use more advanced techniques to complete their projects. There will be a lab fee adjusted to the student's project. **Prerequisite:** Successful completion of Wood 2.

#### WORLD CULTURES WESTERN HONORS

(Grade 10, 11) One Semester Course / .5 credit World Cultures includes the total way of living of a people - their geography, history, religions, values, social organization, creative arts, political, and economics systems. A study of the historical background will be included to provide support for the understanding of the development of present economic, social and political institutions in these areas Latin America, Russia, Eastern Europe, Western Europe and Oceania. Enrichment activities will be presented. Independent, in-depth research projects will be required, along with substantial additional outside readings.

#### WORLD HISTORY 1 CHS

(Grade 12) One Semester Course/.5 Credit Provides an overview of the historical development and interrelationships of the major population centers of Asia, Africa, Europe, and the Americas from Neolithic times to 1500 CE.

#### ENGINEERING DESIGN 3

(Grade 9,10,11,12) One Semester Course/.5 Credit This course will allow students to use all of the skills students learned in ED1 & ED2 to design and solve problems in the areas of Mechanical Engineering. Students will complete a series of mechanical design challenges where they will need to research and then design a solution to a mechanical challenge. Students will then have the opportunity to test their designs by using 3D printing technology to print their solutions. Activities in this course will range between group and individual projects. All activities/assignments will be assessed based on an appropriate grade rubric designed specifically for the design challenge. Prerequisite: Engineering Design 1, 2.

(Grade 9,10,11,12) One Semester Course/.5 Credit An advanced course dealing with the techniques and principles involved in the areas of stencil printing and offset printing. The course will be divided in 18-week segments, one devoted to screen process printing and the other to offset printing. **Prerequisite:** Successful completion of Visual Communications 1.

# VISUAL COMMUNICATIONS 3 / SCREEN PRINTING PRODUCTION

(Grade 10, 11,12) One Semester Course/.5 Credit This is an in-depth course that will explore the techniques and principles of screen printing production. Emphasis will be placed on multi-color design, stencil preparation, color registration and production printing. Supplemental experiences will include: digitizing/embroidery, process color and software exploration. **Prerequisite:** Successful completion of Visual Communications 2.

# **Additional Offerings**

#### EMERGENCY MEDICAL TECHNICIAN

(Grade 11, 12) Full Year Course / 1 Credit The EMT course is open to students of all academic abilities who have a strong desire to achieve National and State EMT Certification. Students with this desire should have the confidence in knowing that students of all levels have successfully completed this program and have become certified Emergency Medical Technicians. This rigorous course prepares students to become a PA Certified Emergency Medical Technician (EMT). Students who are 18 years of age at the time of the exam will also be eligible to become a Nationally Certified EMT. EMT certification is a prerequisite to the Paramedic Program. One of the objectives of this course is to provide the students with opportunities to explore allied health programs offered by other educational institutions. Additionally, the student will be provided with the necessary skills enabling him/her to successfully deal with emergency situations occurring at school or in their personal life as well as to perform a community service. Harrisburg Area Community College (HACC) will offer six credits to any student who successfully completes the program. Students will be required to attend evening classes. A course fee of \$205 is also required.

**Prerequisite:** Students must be 16 years of age prior to April 1.

#### HONORS SEMINAR 1, 2

(Grade 9, 10, 11, 12) One Semester/ ½ Credit These courses serve as the primary opportunity for enrichment for identified gifted students. Students will acquire a clear understanding of their intelligence, examine and develop leadership qualities, and complete career exploration as part of individual and team-oriented projects. Students will gain a better self-understanding and awareness of their needs while developing cognitive and affective strengths through group projects, classroom discussion, individualized learning, and interdisciplinary studies, furthering talent development to become life-long intrinsically motivated learners. Instruction in the course includes the Genius Hour Project, individualized extension based on student interests and talents, and additional enrichment opportunities in all subjects. Additional instructional content (provided on a 4 year rotating cycle) has been developed based on NAGC standards for gifted education and instruction. Requirements: This course is a rigorous elective for identified gifted students.

#### STUDENT IT CLEVER DESK LEVEL 1

(Grade 9, 10, 11, 12) One Semester/.5 Credit This course introduces students to customer service and computer troubleshooting training. Students will run a help desk and go through the process of interacting with customers, documenting computer issues, and troubleshooting/ fixing issues as necessary. Students will experience a dynamic work environment and have the opportunity to learn various skills and complete projects and tasks with the CLSD Technology Department. Students will also complete a personal learning project as a culminating project for the course. **Students must apply for the course and have two teachers to serve as references. This course will be graded on an O, S, U scale.** 

#### STUDENT IT CLEVER DESK LEVEL 2

(Grade 9, 10, 11, 12) One Semester/ .5 Credit This course builds on skills learned in Level 1 to provide improved customer service and computer troubleshooting. Students will run a help desk and go through the process of interacting with customers, documenting computer issues, and troubleshooting/fixing issues as necessary. Students will experience a dynamic work environment and have the opportunity to learn various skills and complete projects and tasks with the CLSD Technology Department. Students will also complete a personal learning project as a culminating project for the course. Students must apply for the course and have two teachers to serve as references. This course will be graded on an O, S, U scale. Prerequisite: Student IT Clever Desk 1

#### STUDENT IT CLEVER DESK LEVEL 3 (Grade 10, 11, 12) One Semester/ .5 Credit

This course builds on skills learned in Level 2 to build leadership and provide improved customer service and computer troubleshooting. Students will run a help desk and go through the process of interacting with customers, documenting computer issues, and troubleshooting/ fixing issues as necessary. Students will experience a dynamic work environment and have the opportunity to learn various skills and complete projects and tasks with the CLSD Technology Department. Students will also complete a personal learning project as a culminating project for the course. Students must apply for the course and have two teachers to serve as references. This course will be graded on an O, S, U scale. Prerequisite: Student IT Clever Desk 2,

## STUDENT IT CLEVER DESK LEVEL 4

(Grade 10, 11, 12) One Semester/ .5 Credit This course builds on skills learned in Level 3 to build leadership and innovative ideas while providing improved customer service and computer troubleshooting. Students will run a help desk and go through the process of interacting with customers, documenting computer issues, and troubleshooting/fixing issues as necessary. Students will experience a dynamic work environment and have the opportunity to learn various skills and complete projects and tasks with the CLSD Technology Department. Students will also complete a personal learning project as a culminating project for the course. Students must apply for the course and have two teachers to serve as references. This course will be graded on an O, S, U scale.

Prerequisite: Student IT Clever Desk 3.

# Behind the Wheel Driving

1. The purpose of the course is to teach basic driving skills. This includes the following:

- knowledge of car's controls on the road
- country, city and highway driving
- changing lanes
- highway merging and exiting
- angle, perpendicular and parallel parking
- turn arounds
- backing skills

2. Instruction is provided in a vehicle loaned to the high school by Frederick Chevrolet. The vehicle is equipped with an instructor side brake.

3. A certificate is issued to all students upon completion of the course.

4. Students interested in signing up for lessons should obtain a form from the high school main office.

# Lebanon County Career and Technology Center

# For further information, go to www.lcctc.edu

# Half Day Two Year Programs

Fourteen CTC programs are offered for a halfday for two years. These programs are open to students beginning in their junior year.

# AUTO BODY TECHNOLOGY (Grade 11 and 12) (3 Credits)

(HALF-DAY, 8:05 A.M. - 10:40 A.M. - YEAR ONE) (HALF-DAY, 11:35 A.M. - 2:10 P.M. - YEAR TWO) Auto Body Technology students repair damaged vehicles to like-new condition. Utilizing the latest technology, they rebuild damaged vehicles and learn body and frame alignment, parts repair/ replacement including the latest fiberglass and plastic components, MIG welding, trim, accessories, interior components, glass replacement, and painting including basecoat/clearcoat/striping. Career opportunities range from the reconditioner to the collision repair technician and may begin in high school with a Co-Op position providing job experience and a salary. Students who successfully complete the program may receive college credits from PA College of Technology and the Automotive Training Center.

# AUTOMOTIVE TECHNOLOGY (Grade 11 and 12) (3 Credits)

(HALF-DAY, 8:05 A.M. - 10:40 A.M. - YEAR ONE) (HALF-DAY, 11:35 A.M. - 2:10 P.M. - YEAR TWO) Automotive Technology students diagnose, service, and repair late model vehicles following the Automotive Service Excellence (ASE) and Automotive Youth Educational System (AYES) national technician standards. Motivated students may obtain the PA Auto Safety Inspection Certification, PA Emission Inspection Certification and qualify to take the ASE tests after successfully completed the program. Students who are selected into the AYES program are guaranteed employment with a local auto dealership and may opt to complete two additional years of college. Utilizing state-of-the-art repair equipment students learn brake systems, suspension and steering, engine performance, automotive electronics, and HVAC. Technical career opportunities range from maintenance mechanic to automotive technician and may begin in high school with a Co-Op or an AYES internship providing job experience and a salary. Students who successfully complete the program may receive 16 college credits from HACC. In addition, students can also earn credits from University of Northwestern Ohio, Automotive Training Center, and Northampton Community College.

#### CARPENTRY/RESIDENTIAL CONSTRUCTION (Grade 11 and 12) (3 Credits)

(HALF-DAY, 8:05 A.M. - 10:40 A.M. - YEAR ONE) (HALF-DAY, 11:35 A.M. - 2:10 P.M. - YEAR TWO) Carpentry students work on construction projects within the school and community. They learn skills including: transit and blueprint reading, selection of building materials and estimating, framing (floors, stairs, walls, and roofs), selection and installation of windows and doors, roofing, interior and exterior finishing, concrete finishing, and foundations. Career opportunities range from a siding installer to a finish carpenter and may begin in high school with a Co-Op position providing job experience and a salary. The 500 employers in the Lebanon County Builders Association sponsor this program. provide student scholarships, and employ graduates. Students who successfully complete the program may receive college credits from HACC, Penn College of Technology, and Thaddeus Stevens College of Technology.

credits may be awarded by accredited colleges or technical schools upon successful completion of this CTC program.

# DIESEL TRUCK TECHNOLOGY (Grade 11 and 12) (3 Credits)

(HALF-DAY, 8:05 A.M. - 10:40 A.M. - YEAR ONE) (HALF-DAY, 11:35 A.M. - 2:10 P.M. - YEAR TWO) Diesel Truck Technology students restore late model over-the-road diesel truck-tractors to like new condition. Each year they refurbish or repair vehicles providing "hands-on" experience in diagnosing, servicing and repairing all major heavy truck systems. Students learn the importance of teamwork and qualify for the PA State Safety Inspection program. The major course topics include: Preventive Maintenance, Engine Systems Theory & Repair, Electrical Systems, and Brakes (air & hydraulic), Power Trains, Steering, Suspension and Drivelines. Career opportunities range from maintenance mechanic to fleet manager, and may begin in high school with a Co-Op position providing job experience and a salary. Employers in the South Central Motor Truck Association sponsor this program, provide student scholarships, and employ graduates. Students who successfully complete the program may receive college credits from the University of Northwestern Ohio (UNOH) and Automotive Training Center.

# ELECTRICAL TECHNOLOGY (Grade 11 and 12) (3 Credits)

(HALF-DAY, 8:05 A.M. - 10:40 A.M. - YEAR ONE) (HALF-DAY, 11:35 A.M. –2:10 P.M. – YEAR TWO) Electrical Technology students design and install the electrical systems in the school's construction projects and work on numerous projects within the community. They learn technical skills including AC/DC fundamentals, residential, commercial and industrial wiring, AC/DC motors and generators, industrial motor control, troubleshooting and the operation of programmable logic controllers. Technical careers range from an electrician to a systems engineer and may begin in high school with a Co-Op position providing job experience and a salary. The 500 employers in the Lebanon County Builders Association sponsor this program, provide student scholarships and employ graduates. Completion of this program with the College-in-the-High School option may also provide students with eight HACC college transferrable credits.

#### ELECTROMECHANICAL TECHNOLOGY (Grade 11 and 12) (3 Credits)

(HALF-DAY, 8:05 A.M. - 10:40 A.M. - YEAR ONE) (HALF-DAY, 11:35 A.M. - 2:10 P.M. - YEAR TWO) The Electromechanical Technology program is designed to provide students with the knowledge and skills necessary to apply current methods and technology to the development, design, operation, and management of electromechanical systems. Electromechanical covers multiple disciplines including Electrical, Electronics, Fluid Power (Hydraulics and Pneumatics), Mechanical Drives, Programmable Logic Controllers (PLC's), and Robotics. Students are trained in both the electrical and mechanical disciplines, and then exposed to a wide spectrum of instrumentation and industrial controls concepts. Students can use what they learn in Electromechanical Technology to pursue a career directly out of high school or continue their education into a degree program. The course is designed to give an introduction to engineering principles of electromechanical systems and disciplines. Some of the potential jobs include Electronics Technicians/Engineer, Electrician, Biomedical Technician/Engineer, Industrial Maintenance Technician, Mechanical Engineer, Programmer, and many more.

# COMPUTER REPAIR TECHNOLOGY (Grade 11 and 12) (3 Credits)

(HALF-DAY, 8:05 A.M. - 10:40 A.M. - YEAR ONE) (HALF-DAY, 11:35 A.M. - 2:10 P.M. - YEAR TWO) Computer Repair Technology – Based on the industry standard CompTIA A+ Certification, students use the latest technology to learn how modern computer equipment works. Hands on projects mixed into the high tech curriculum help develop technical expertise for the rapidly growing career opportunities in computer repair, help-desk support and entry-level networking positions. Mock job interviews and help desk scenarios help develop the "Soft Skills" needed for face-to-face customer support, helping prepare the students for the important job of troubleshooting both hardware and software issues in a real-world environment. This course will equip the student to pass the CompTIA A+ certification test. Up to six college

# INDUSTRIAL MACHINE TECHNOLOGY (Grade 11 and 12) (3 Credits)

(HALF-DAY, 8:05 A.M. - 10:40 A.M. - YEAR ONE) (HALF-DAY, 11:35 A.M. – 2:10 P.M. – YEAR TWO) Industrial Machine Technology students manufacture precision parts in the school's NIMS (National Institute for Metalworking Skills) authorized training center. The curriculum provides in-school instruction on topics such as: quality control, benchwork, blueprint reading, computer controlled machines (lathes/milling machines), and manual machines (saws /drills / grinders /lathes and milling machines). Career opportunities range from machine operator to tool and die maker or mechanical engineer and may begin in high school with a Co-Op position providing job experience and a salary. Students who successfully complete the program may receive seven college credits from HACC as well as credits from PA College of Technology and Thaddeus Stevens College of Technology.

# and 12) (3 Credits)

(HALF-DAY, 8:05 A.M. - 10:40 A.M. - YEAR ONE) (HALF-DAY, 11:35 A.M. - 2:10 P.M. - YEAR TWO) Law Enforcement and Security students develop investigation skills essential to careers in Criminal Justice (Police, Courts, and Corrections) and the ever growing Private Security fields. They also have the opportunity to experience parts of the Criminal Justice System through job shadowing experiences in the real world. The program emphasizes curriculum that covers topics such as: criminal procedures, crime photography, criminal investigations, criminal law, Bill of Rights/US Constitution, vehicle law, private security, report writing, and first aid/CPR. Career opportunities range from private security to local. state, and federal officers and federal police officers. Students who successfully complete the Pennsylvania Department of Education approved program and the NOCTI exam (end of the year assessment) on the criminal justice system may receive college credits from HACC and other area colleges.

#### MASONRY (Grade 11 and 12) (3 Credits)

(HALF-DAY, 8:05 A.M. - 10:40 A.M. - YEAR ONE) (HALF-DAY, 11:35 A.M. - 2:10 P.M. - YEAR TWO) Masonry students work on construction projects that include concrete block, brick and other similar materials. Most of the training is within the school; however, community service projects add additional learning opportunities. Students develop a highly skilled craft which includes the ability to lay a multitude of contemporary concrete building products as well as traditional brick. Additional topics include: blueprint reading, site layout, estimating, building codes, and the use of hand and power tools. Career opportunities range from a mason's helper to blocklayer, bricklayer, estimator, or construction supervisor and may begin in high school with a Co-op position providing job experience and a salary. The 500 members in the Lebanon County Builders Association as well as the Pennsylvania Concrete Masonry Association sponsor this program, provide student scholarships and employ graduates. A student who successfully completes this program may earn three college credits from HACC.

MEDICAL ASSISTANT (Grade 11, 12) (3 Credits) (HALF-DAY, 8:05 A.M. - 10:40 A.M. - YEAR ONE) (HALF-DAY, 11:35 A.M. - 2:10 P.M. - YEAR TWO) Medical assistants are professional, multiskilled individuals who perform administrative and clinical duties in health care settings. The program includes studies in anatomy and physiology, health insurance coding and billing, medical terminology, medical law and ethics, pharmacology, clinical and administrative skills, phlebotomy, laboratory tests, and performing and interpreting electrocardiograms.

NETWORK TECHNOLOGY (Grade 11, 12) (3 Credits) (HALF-DAY, 8:05 A.M. - 10:40 A.M. - YEAR ONE) (HALF-DAY, 11:35 A.M. - 2:10 P.M. - YEAR TWO) Network Technology - In today's high-tech environment, everything is networked !!! Following the CompTIA Network + Certification model, students learn the features and functions of networking components including how to install, configure and troubleshoot basic networking hardware, protocols and services. Completion of this course will prepare students for entry-level jobs in computer networking or give them a boost as they continue their education while pursuing a career as a network administration, network support technician, network administrator or network analyst. Fundamental topics to be covered include: The Foundations of Networking, the OSI/802 Model, Network Design, Network Cabling, Wireless Communication, TCP/IP, WAN Devices, Security Issues and Disaster Recovery Training. The goal is for students to seek Network+ certification after completion of the course. Students who successfully complete the program may receive up to four college credits awarded by accredited colleges or technical schools.

LAW ENFORCEMENT AND SECURITY (Grade 11 Section 608 Refrigerant Transition and Handling certification. Dual enrollment opportunities with Thaddeus Stevens College of Technology are also available while enrolled in the program. Post-secondary opportunities exist for those completing the CTC Plumbing, Heating, and Air Conditioning program such as craft apprenticeships where students "earn while they learn" graduating debt-free from industry recognized programs. Associate and Bachelor degree programs are available for those choosing careers as sales engineers, designers, and similar professions requiring advanced degrees.

# WELDING TECHNOLOGY (Grade 11, 12) (3 Credits) (HALF-DAY, 8:05 A.M. - 10:40 A.M. - YEAR ONE)

(HALF-DAY, 11:35 A.M. - 2:10 P.M. - YEAR TWO) Welding Technology students design, fabricate and repair metal products in the school's shop facilities. They develop skills in testing procedures necessary to meet standards for welding certification and practice welding techniques according to the requirements of the American Welding Society. Utilizing state-of-the-art equipment, students learn shielded metal, gas metal, gas tungsten and flux core arc welding, blueprint reading, gas welding and brazing, oxy-fuel cutting, metal layout and fabrication, computerized numerical control cutting, plasma cutting of sheet and plate metals, and structural and robotic welding. Technical careers range from a metal fabricator to an underwater welder. These opportunities may begin in high school with a Co-Op position providing job experience and a salary. Students who successfully complete the program may receive six college credits from HACC or entry level welder certification. The program is nationally recognized by the AWS (American Welding Society).

# Full Day Programs

Eight CTC programs are offered for a full day, 8:05 A.M. - 2:10 P.M. The programs are open to seniors.

#### COMMERCIAL ART AND DESIGN (Grade 12) (6 Credits)

#### (FULL-DAY, 8:05 A.M. – 2:10 P.M.)

Commercial Art students work with a variety of media to create logos, brochures, posters, advertisements, greeting cards and a variety of artwork for the school and the community. They participate in Art Shows and Competitions to develop a portfolio emphasizing their creative talents and technical skills including mastery of state-of-the-art computer systems and software such as: QuarkXpress, Adobe IIlustrator, and Adobe PhotoShop. This "learning while doing" strategy brings reality to the course topics, which includes: typography, media techniques, color theory, graphic design, perspective, and computer applications. This full day course promotes creativity and expression through photography, web design and animation. Career opportunities range from a production artist to a creative director. Certifications can be received from Adobe and Certified Photographic Consultants. Graduates have been successful at four-year colleges and a number of students have won scholarships at two-year art schools. Students who successfully complete this program may earn college credits from Pennsylvania College of Art and Design and The Art Institute of Pittsburgh.

#### CULINARY ARTS (Grade 12) (6 Credits) (FULL-DAY, 8:05 A.M. - 2:10 P.M.)

Culinary Arts students operate a contemporary sixty-seat full service restaurant located within the school. They plan, prepare and serve a variety of traditional, ethnic, and contemporary menus as well as cater banquets, dinner meetings, and special events. Students develop artistic skills through ice carvings and special exhibits of pastillage, tallow, and aspic work. Local, state, and national competitions enrich the curriculum which includes: appetizers, soups and sauces, vegetables and salads, meat/ poultry/seafood/shellfish, desserts, garnishing, catering, service, sanitation, and management. Career opportunities range from a prep cook to an executive chef and may begin in high school with a Co-Op position providing job experience and a salary. Students who successfully complete the program may receive college credits from PA College of Technology, HACC, Johnson & Wales University, Pennsylvania Culinary Institute, and The Restaurant School. The program is nationally recognized and certified by the American Culinary Federation (ACF)..

in private dental offices, clinics and hospitals. Experience gained in the Dental Assistant program prepares students to take the Commonwealth of Pennsylvania State Dental Radiology Certification Test.

#### HEALTH CAREERS TECHNOLOGY (Grade 12) (6 Credits)

#### (FULL-DAY, 8:05 A.M. - 2:10 P.M.)

Health Careers Technology students who are interested in a career as a nursing assistant (NA) can complete the requirements for the exam by midyear. Successful performance on the exam will provide the opportunity for immediate paid employment at local nursing care facilities. Students also earn certification in adult, child, and infant CPR and AED as well as first aid skills through the American Red Cross. They learn to be caregivers and prepare for the state Nurse Aide Competency Exam through a curriculum that includes topics such as: patient care skills, anatomy and physiology, medical terminology and ethics, nutrition, environmental cleanliness, record keeping, and safety. Students interested in getting a head start on a Licensed Practical Nursing (LPN) career may qualify for advanced placement in the adult CTC LPN program. They will complete a portion of the curriculum for Level 1 of the LPN program, which allows them to enroll in the LPN program at a reduced cost. There is also a reduction in the number of hours required to attend Level 1.

Completion of the full year Health Careers Technology program with the College-in-the-High School option also provides three HACC transferrable credits.

#### LANDSCAPE TECHNOLOGY (Grade 12) (6 Credits) (FULL-DAY, 8:05 A.M. - 2:10 P.M.)

In Landscape Technology, you will work with the tools, equipment, and techniques needed to design, install, and maintain beautiful landscapes for private residences as well as commercial properties. You will use hand tools and power equipment including rototillers, string trimmers, leaf blowers, and commercial mowers. You will also receive training on a state-of-the-art piece of excavation equipment, a skid-steer loader. You will practice building paver patios, walkways, retaining walls, and other hardscape projects. You will participate in volunteer work experience trips all around the county. Qualified students in Landscape Technology may also be chosen for the co-op program, an opportunity to work for area landscape contractors and earn while you learn. If you enjoy working outside year round shaping and creating landscapes, then the landscape technology program will be a great fit and learning experience for you.

#### MEDIA COMMUNICATIONS TECHNOLOGY (Grade 12) (6 Credits)

(FULL-DAY, 8:05 A.M. - 2:10 P.M.)

Students enrolled in the Media Communications Technology program develop the necessary skills to be successful in the work place or post-secondary education. Using state of the art technology, students create a wide array of media projects while gaining necessary job skills.

Media Communications Technology students develop a portfolio emphasizing their creative talents and technical skills including mastery of computer systems, software, cameras, and lighting. Students create photographic and video projects for the school, civic groups, and business clients.

The program emphasizes a "hands on" curriculum which covers topics such as: digital imaging, portraiture, photo composition, lighting, animation, web page design, digital audio, video scripting/storyboarding, videography, EFP video, studio production, digital nonlinear editing, 3D animation, and multimedia CD ROM production. Career opportunities include photographers, raproviding job experience and a salary. Students who successfully complete the program may receive college credits from Johnson & Wales, West Moreland Community College, PA College of Technology, Harrisburg Area Community College, Art Institutes, and The Restaurant School at Walnut Hill College.

#### **SPORTS THERAPY SCIENCES (Grade 12)** (6 Credits)

(FULL-DAY, 8:05 A.M. - 2:10 P.M.)

Sports Therapy Sciences students will gain knowledge of pre-participation health and fitness assessments to design individual exercise and rehabilitation programs. Our goal is to provide an education that will encourage our students to continue their studies in fields such as athletic training, physical therapy, occupational therapy and other health and fitness related fields. Our curriculum includes: human anatomy and physiology, medical terminology, basic first aid and CPR, injury management and personal training. At the conclusion of our program, each student will be eligible to take a personal training certification examination.

# Half Day Year One, Full Day Year Two

This program is offered for a half-day in year one and a full-day in year two. The program is open to students in the junior year.

#### COSMETOLOGY (Grade 11 and 12) (Grade 11 – 3 Credits; Grade 12 – 6 Credits) (HALF-DAY, 8:05 A.M. - 10:40 A.M Or 11:35 A.M. - 2:10 P.M. - YEAR ONE)

(FULL-DAY, 8:05 A.M. - 2:10 P.M. - YEAR TWO) Cosmetology students learn skills necessary to become a licensed professional in a salon. Major topics include hairstyling, haircutting, perming, chemical relaxing, haircoloring, manicuring, facials and makeup. Students learn the theory and procedures about these topics. When finished with the program and state mandated hours, students must take and pass a state board exam to receive a cosmetology license.

#### PLUMBING, HEATING, AIR CONDITIONING (Grade 11 and 12) (3 Credits)

(HALF-DAY, 8:05 A.M. - 10:40 A.M. - YEAR ONE) (HALF-DAY, 11:35 A.M. – 2:10 P.M. – YEAR TWO) Students interested in the plumbing profession can begin their training at the CTC in the Plumbing, Heating, and Air Conditioning program which is a Pennsylvania Builders Association accredited program and tailored after the Pennsylvania College of Technology's first year HVAC skills list .They will begin their technical training learning safe work practices, materials and tools used in the trade, and applied mathematical and scientific concepts needed to build a strong foundation for more advanced topics. Our students "learn by doing" by working on a variety of skills trainers and equipment designed to simulate actual field installations. Students also have the opportunity to earn industry recognized certifications such as the OSHA 10 construction safety certification and the EPA

#### DENTAL ASSISTANT (Grade 12) (6 Credits) (FULL-DAY, 8:05 A.M. - 2:10 P.M.)

The Dental Assistant program integrates lectures, demonstrations and hands-on experiences to teach students a variety of dental-related subjects. The major areas of study include anatomy and physiology, chair-side dental assisting, radiology, dental materials and microbiology/sterilization. During the program, students participate in clinical rotations dio announcers, and videographers.

#### PASTRY ARTS (Grade 12) (6 Credits) (FULL-DAY, 8:05 A.M. – 2:10 P.M.)

The Lebanon County Career & Technology Center Pastry Arts Program was the first nationally recognized and certified secondary program by the American Culinary Federation Education Foundation (ACF) in the country.

Pastry Arts students produce and market high quality baked products for a contemporary sixty-seat restaurant within the school. They also market their products through their own pastry shop as well as supplying items for school banquets, dinner meetings, community service projects, and specialty events. Students develop artistic skills through the preparation of pastries, confections, and other specialty desserts. Students will create and present a professional portfolio and restaurant programs as an end of the year assessment. Local, state and national competitions enrich the curriculum which includes: pastry bag skills, cornet skills, cake decorating and assembly, decorative pieces including a Gingerbread House and Pumpkin Carving competition, merchandising, record keeping, and sanitation. Career opportunities range from a baker's helper to a pastry chef and may begin in high school with a Co-Op position

# **Cedar Crest High School Graduation Requirements**

#### All of the following requirements must be met:

1. follow a career academy;

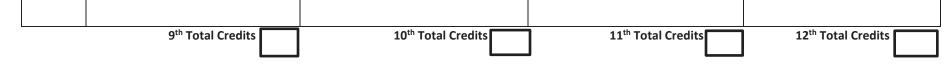
- 2. completion of a 4 year program;
- 3. accumulation of a minimum of 24 credits;
- 4. successful completion of a minimum of 5 credits during the senior year;
- 5. successful completion of the following:
  - 4 credits in English
    - 3 credits in social studies (all students must pass coursework in American Cultures, World Cultures and Government)
  - 3 credits in mathematics
  - 3 credits in science
  - 1.5 credits in physical education
  - .5 credit in health
  - .5 credit in fine arts (art or music)
  - .5 credit in Business and Career Development, DIY Home Improvement, OR Introduction to Technology and Problem Solving
  - .5 credit in family and consumer sciences
- 6. successful completion of Project L.I.F.E.

7. For the Class of 2020 and 2021, demonstration of proficient level or better in Literature and Algebra on the Keystone Exams by grade 11 or local assessments that are aligned with the Keystone Exams eligible content. Students who do not score at the proficient level in Literature or Algebra will be required to meet all requirements found in the English 12 and/ or Keystone Math courses. (Please see course descriptions for English 12 and Keystone Math.) Keystone Biology proficiency as determined by the Commonwealth of Pennsylvania. 8. For the Class of 2022 and beyond, statewide graduation requirement options as outlined in Senate Bill 1095 that expands options for students to demonstrate postsecondary

readiness using four additional pathways that more fully illustrate college, career and community readiness.

# Four Year Planner/Graduation Requirement Tracker (Write out your four-year plan below and track graduation requirements.)

	9	10	11	12
1	English	English	English	English
2	Math	Math	Math	Elective
3	Social Studies	Social Studies	Social Studies	Elective
4	Science	Science	Science	Elective
5	PE Bus/Career Dev., DIY or Intro to Tech.	PE Elective	PE Elective	Elective
6	Fine Arts Elective	Family/Consumer Sciences Health	Elective	Elective
7	Elective	Elective	Elective	Elective
8	Lunch or Elective	Lunch or Elective	Lunch or Elective	Lunch or Elective



## **Graduation Requirements:**

4 English **3** Social Studies 3 Math 3 Science

1.5 Physical Education .5 Health .5 Fine Arts (Art or Music) .5 Business and Career Dev., **DIY Home Improvement** Or Intro to Technology And Problem Solving

# .5 Family/Consumer Sciences

Earn Total 24 Credits

Total Credits to date

**Keystone Proficiency:** Algebra 1  $\bigcirc$  Yes  $\bigcirc$  No Literature ⊖Yes ⊖No

Biology ⊖Yes ⊖No

**Project LIFE Completion** ⊖Yes ⊖No

Students must register for a minimum of 6 credits their senior year.