

Central High School Curriculum Guide



2019-2020



Central Community Unit School District 301



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Important Dates

Date	Descriptions
Oct 23rd	Skyward opens up for <u>all students</u> to login and begin entering course requests and alternate course requests.
Nov 5th -19th	CHS Counselors meet with <u>current juniors, sophomores and freshman</u> to review 19-20 course requests.
Nov 27th - Dec 6th	CHS Counselors meet with <u>current 8th graders</u> at CMS to finalize course selection
Dec 10th	Last day for completed ECC and Fox Valley applications to be turned in to counselors.
Dec 21st	All placement tests for ECC students <u>must be completed by</u> this date.
Look out for communication from ECC	ECC Dual Credit Welcome Night
30 days after registration has opened	Last day for students to request changes to their 19-20 schedule

General Information

HOW TO USE THIS GUIDE

This guide has been created to help you select your classes. It contains most of the information you will need to make your course selections for the upcoming school year. As you begin the process of selecting your courses, pay careful attention to the prerequisites and grade levels required for the course you are interested in to ensure you are selecting only courses for which you are eligible. The number of credit hours earned for a class are indicated.

Colleges, universities, and other post-secondary institutions require students to have successfully completed certain coursework in high school. However, not all post-secondary institutions have the same entrance requirements and some may exceed Central Community Unit School District 301's minimum graduation requirements. Students are encouraged to research entrance requirements thoroughly. More specific information on college entrance requirements can be found on [Page 12](#). Please see your school counselor for assistance.

Please note that certain courses require teacher approval or a mandatory teacher meeting. You are encouraged to discuss class placement with your counselor and current teachers, but be aware that signing up for a class does not guarantee enrollment in that class. Also, all students must have a parent/guardian's signature on the registration sheet.

Please contact your assigned counselor by e-mail or phone if you have questions or want to schedule an appointment.

School Counselor for:	School Counselor Name:	Contact Information:
Last Names A - EL	Mr. Brian Melvin	Email: brian.melvin@central301.net Phone: 847-464-0025
Last Names EM - LEE	Ms. Gina Tauer	Email: gina.tauer@central301.net Phone: 224-990-7254
Last Names LEEG - RO And Life Skills	Mrs. Rachel Rodriguez	Email: rachel.rodriquez@central301.net Phone: 847-464-6037
Last Names RU - Z And ELL	Mrs. Megan Marciniac	Email: megan.marciniac@central301.net Phone: 847-464-6036

GRADUATION REQUIREMENTS

The objective of every student should be to earn a high school diploma. Before receiving a diploma, a student must successfully complete all graduation requirements as specified by the Central Community Unit School District 301 Board of Education, the Illinois State Board of Education, and The School Code of Illinois. Students receive a half credit for each class in which they receive a passing grade for the semester, except as indicated in this guide. ***A total of 23.5 credits are required for graduation from Central High School.** This total may be adjusted down if a student transfers to Central High School from another school that offered less opportunities to earn credits. Graduation credits must include the following:

Department/Course	Credits
English	4 credits (8 semesters)
Mathematics	3 credits (6 semesters)
Science	2 credits
Social Studies	2.5 credits
Humanities (Fine Arts/Foreign Language/Career Tech Education)	0.5 credit
Personal Finance	0.5 credit
Wellness	3.5 credits (Driver's Ed does not apply)
Health	0.5 credits
Elective	7
Total	23.5 credits

SPECIFIC COURSE REQUIREMENTS

(The following courses MUST be completed in order for students to graduate from Central High School)

English 1 (or Honors English 1)	Algebra 1
English 2 (or Honors English 2)	Geometry (or Accelerated Geometry)
English 3 (or AP English Literature & Comp)	Algebra 2 (or Accelerated Algebra 2)
United States History (or AP US History)	Health 1
Global Studies (or AP Human Geography)	American Government (or AP US Gov & Politics)
Molecular Biology (for Class of 2023 and beyond)	Personal Finance (or equivalent - see Page 7)

CREDITS FROM OTHER INSTITUTIONS

Other than credits transferred from another high school when a student establishes residence in the district, students may earn no more than two credits from a pre-approved program such as a correspondence course. Students desiring to earn more than two credits from an outside source must seek and receive permission from the principal or designee before doing so.

ACADEMIC STANDING

Students at Central High School are classified based on their number of credits successfully completed rather than the number of years they have attended high school. For the purposes of classifying students by grade, the following guidelines are used:

- To be classified as a sophomore, a student must have earned at least 5.5 credits;
- To be classified as a junior, a student must have earned at least 11.5 credits;
- To be classified as a senior, a student must have earned at least 17 credits;

Note: Any student who transfers to Central High School who has not had the opportunity to earn 7 credits per year at their previous school(s) will have their academic standing adjusted accordingly.

CREDIT RECOVERY OPTIONS

Students who have failed courses and are in need of credit recovery should discuss their options with their counselor. Those options can include but, are not limited to, the following:

1. Repeating the course that was failed in either District 301 summer school program or a subsequent semester/year;
2. Taking an equivalent course through a distance education provider such as the American School of Correspondence, Penn Foster High School, Illinois Virtual School, or other accredited institution. As indicated on [Page 4](#), students may apply up to two (2) credits from such outside providers toward their Central High School diploma. Students seeking to take more than two credits should see their counselor first and will need to obtain permission from the principal, or designee, in order to do so;
3. Students may be recommended to enroll in our in-house, computer-based credit recovery program, Central Academy. Central Academy is a limited admission program, where students can take course offered at Central High School in an online format for students who are not on track for graduation. This type of learning is self-paced and intended for the student who is motivated to work diligently to complete credits at a faster rate than they could in the traditional classroom setting. All potential Central Academy students must be recommended by their counselor to be enrolled into the program. Please speak with your counselor to discuss this option.

ADVANCED PLACEMENT (AP) COURSES

The Advanced Placement (AP) Pathway can open doors to competitive colleges and universities and to honors programs at other universities. More importantly, completing a successful AP experience can better prepare students for college success. College admissions offices recognize that an honors curriculum and district-written assessments for honors courses may vary from state to state, and even from district to district. Because the AP curriculum and accompanying exam represent a nationally standardized program, many admissions offices, particularly at competitive colleges, show preference for students who have successfully completed an AP curriculum.

AP courses offer high school students an opportunity to study college-level material while still enrolled in high school. All students who enroll in AP courses are encouraged to take the AP exam in May. By participating in the AP examination program, students may receive advanced placement, credit, or both for a specific college or university. IL law now requires all state schools to accept a score of 3 or higher for credit. Even students earning below a 3 may advance their placement, saving him/herself money, even if they are not earning credit. Check with specific colleges or universities to see how AP credit is accepted. Each AP test has a fee. **The following Advanced Placement courses are offered at CHS:**

AP Biology	AP English Language & Comp	AP Physics 1	AP Studio Art: 2D - Design
AP Calculus AB	AP English Literature & Comp	AP Physics 2	AP Studio Art: 3D - Design
AP Calculus BC	AP Environmental Science	AP Psychology	AP Studio Art: Drawing
AP Chemistry	AP German Lang & Culture	AP Spanish Lang & Culture	AP US Government & Politics
AP Computer Science A	AP Human Geography	AP Statistics	AP United States History

Note: All Advanced Placement courses are weighted to count more heavily in the calculation of Grade Point Average (GPA).

Advanced Placement (AP) courses approved by the College Board will be given weighted credit. Additionally, honors courses designated in the course catalogue will be given weighted credit based on at least five of the seven characteristics listed below:

- a. The course includes college level content or syllabus.
- b. The quality of learning activities, projects, and assignments in the course is significantly more than in other courses.
- c. The ideas and concepts studied in the course are significantly more complex than in other courses.
- d. The pace is accelerated in comparison to standard courses.
- e. The course includes assessments in the areas of analysis, synthesis, and evaluation.
- f. The time required outside of regular class period is significantly more than in other classes.
- g. The course completes the sequence of classes/programs.

Grade	Unweighted Courses	Weighted Courses
A	4	5
B	3	4
C	2	3
D	1	1
F	0	0

Transfer students will receive weighted credit only for the courses that are given additional weight at Central High School. The weight given to each transfer grade will be the same as the weight given to courses at Central High School.

PLACEMENT IN FRESHMAN CLASSES

Except as indicated elsewhere in this guide, as a general rule, initial placement in freshman courses will be based on a combination of student performance on the MAP test, articulation between the high school and middle school staff, and, in certain select cases, student performance on diagnostic tests.

PREREQUISITES

A prerequisite may be a course, a grade in a course, or a year in school. If a course has a prerequisite, it will be listed just below the course name in this guide. You must meet the prerequisites required for a course before you are allowed to enroll in it. If you have not met the grade requirements to enroll in the course, you may also seek a waiver form from your counselor.

SPECIAL EDUCATION

The Special Education Department provides support for students with identified disabilities. Through the evaluation process, the appropriate level of service for the student is determined. The appropriate supports and services are outlined in each student's Individualized Education Program (IEP) and are in accordance with the requirements set forth by the Individuals with Disabilities Education Act (IDEA). District 301 makes every effort to educate students in the Least Restrictive Environment (LRE). Placement in Special Education courses is made only through the recommendation of the IEP team.

COURSE LOAD

Students must register for 7 credits each school year (3.5 per semester). Students taking ECC Dual Credit courses or courses through our Regional Pathways Program may earn less than 7 or more than 7 credits per year depending on the program.

MEETING THE PERSONAL FINANCE REQUIREMENT

The State of Illinois requires that all high school graduates possess minimum competencies in the area of Consumer Education. At Central High School this competency can be shown in one of four ways:

- 1.) Successfully completing the course Personal Finance.
- 2.) Successfully completing the course Economics.
- 3.) Successfully completing the course INCubatoredu Entrepreneurship.
- 4.) Successfully completing the course Cooperative Education.

COURSES IN TWO SUBJECTS AREAS

Some courses at Central High School can be taken for different types of credit. If you choose one of these courses, you must declare at the time of course selection what type of credit you wish to receive. **Please note that the below courses are not considered lab sciences.** The courses which offer these options are:

Course Name	Credit Type
Introduction to Agricultural Science	Career Tech Education or Science
Plant Science	Career Tech Education or Science
Veterinary Sciences	Career Tech Education or Science
Veterinary Sciences 2	Career Tech Education or Science
Biotechnology	Career Tech Education or Science
Alternative Energy	Career Tech Education or Science

EARLY GRADUATION (BOARD POLICY 6:300)

1. A request for early graduation must be approved by the student's parents/guardians and Administration.
2. Students requesting early graduation must have the Early Graduation form completed and turned in to their assigned counselor by October 1 of their Senior Year. All correspondence work must be completed and final grades must be reported to the school by December 1. If coursework is not completed by that date, the student will be ineligible for early graduation.
3. All school fines, fees, and materials must be paid and returned by the student's last day of school.
4. The student must have met all graduation requirements of Central High School and District requirements for early graduation.
5. As an early graduate of Central High School, the student relinquishes student privileges and assumes adult privileges. Early graduates may be invited to attend Prom, senior breakfast, and other such senior activities that might be scheduled.
6. Seniors graduating early will be permitted to participate in graduation events, provided they are in accordance with the District's graduation policy.

REPEATING COURSES

1. The course must be labeled as "course may be repeated" in the Curriculum Guide.
2. The course must be repeated prior to the student taking any course for which it is a prerequisite.

CORRESPONDENCE/ONLINE CLASSES

A student seeking graduation from Central High School may submit to the school a certificate of successful completion of an appropriate correspondence or online course as two Carnegie Units of credit toward graduation according the following conditions:

1. Courses must have prior approval of the school counselor and Assistant Principal of College and Career Readiness, see below to see situations that have been previously approved):
 - a. Credit Recovery
 - b. Early Graduation
 - c. AP course that CHS does not offer
 - d. Schedule Conflict
 - e. Student has taken all class offerings in a specific subject at CHS
2. A student enrolled in any correspondence or online course may receive high school credit for work completed provided:
 - a. The course is offered by an institution accredited by the North Central Association of Colleges and Secondary Schools, NCATE, or the equivalent approved by the Superintendent or designee.
 - b. The student assumes responsibility for all fees, including tuition, textbooks, and other fees.
3. Grades earned in approved courses will count toward a student's grade point average, class rank, and eligibility for athletic and co-curricular activities.

COURSE SELECTION AND SCHEDULE CHANGES

1. Students will be permitted to make changes to their schedule for the following school year until 30 days after registration for the following year has begun. (I.e. If registration opens on April 1st, students would have until May 1st to request changes to their schedule.) Students should contact their counselor by phone or e-mail to request such changes.
2. Unless a schedule change is necessary because a student either failed a course, or a student needs a course in a particular area to graduate, all other requests to change a student's schedule after 30 days after registration has begun will not be permitted.
3. Students may access a copy of their schedule during the summer by using Skyward.

Off Campus Course Offerings

REGIONAL PATHWAYS PROGRAM – SEE PAGE 21

District 509 is comprised of the high schools that have students who live in the Elgin Community College boundaries. An agreement has been made for CHS students to be able to access CTE programs at surrounding high schools within the 509 boundary lines. The courses available to CHS students are listed on page 21 in this guide. In addition, students in the other 509 schools will have the opportunity to attend CHS to access our Agriculture programs. Each program available to CHS students through this agreement are three year commitments that end with the possibility of a student becoming certified in their field of study. Students enrolled in each of these programs will be transported by bus. When the number of students who sign up is higher than spots available, student grades and teacher recommendations in the related subject areas shall be considered in deciding who will be able to enroll in any program through the 509 agreement.

ELGIN COMMUNITY COLLEGE (ECC) DUAL CREDIT

Juniors and seniors may elect to attend Elgin Community College (ECC) courses during part or all of the regular school day and earn both high school and college credits through the Dual Credit Programs. Credits earned through the Dual Credit Program can give students a “jump start” on an Associates Degree from Elgin Community College.

Students enrolled in a part time ECC Dual Credit Program will be required to pay for their own books and supplies. **In addition, if a student should be removed or withdraws from the ECC Dual Credit Program prior to completing the semester, the student will be required to pay for that semester.** Please note that enrolling in this type of program, successful or not, becomes a part of your official college transcript.

To enroll in an ECC Dual Credit Program, students must:

- 1.) Complete the application forms (available in the Student Services Office)
- 2.) Meet entrance requirements established by ECC for each course. All programs will require appropriate ACT subject scores/SAT subject scores or placement test scores. Please see your school counselor or the specific course descriptions can be found in the CHS Dual Credit Course Guide.
- 3.) Students must be able to provide their own transportation to their ECC classes, therefore needing at least a 2.5 GPA to drive to school.
- 4.) In addition, when the number of students who sign up for ECC is higher than spots available, student grades and teacher recommendations in the related subject areas shall be considered when deciding who will be able to enroll in any given ECC Dual Credit Program.

Naviance - College & Career Exploration

All students are assigned a counselor that they will work with over the entirety of their four years at Central High School. Students are assigned to counselors by last name and are assigned as follows:

Last Names A - EL	Mr. Brian Melvin
Last Names EM - LEE	Ms. Gina Tauer
Last Names LEEG - RO And Life Skills	Mrs. Rachel Rodriguez
Last Names RU - Z And ELL	Mrs. Megan Marciniac

The mission of the Central High School counseling department is as follows:

The mission of the school counseling program is to center all students around an engaging curriculum that encourages the highest level of student achievement through their growth in academic, career, and personal/social domains. In partnership with teachers, administrators, parents and a caring community, the school counselors will help all students to be successful lifelong learners and problem solvers.

NAVIANCE

In addition to individual meetings, classroom presentations, and evening presentations covering a variety of topics, one of the essential tools counselors use in assisting students is Naviance. Naviance is a college and career readiness platform that helps connect academic achievement to post-secondary goals. This comprehensive college and career readiness solution empowers students and families to connect learning and life and provides counselors with information they need to help students prepare for life after high school. It also allows students to create a plan for their futures by helping them discover their individual strengths and learning styles and explore college and career options based on their results.

Students will initially obtain their login information for Naviance in 8th grade. However, should students lose their login information, they may see their counselor to regain entry to the program. In addition, all parents will be provided with their own individual login where they can access the Naviance program for all students they have in the district grades 8-12.



NAVIANCE

College Connection for High School Students

8th Grade Year: “Self-Assessment”

- Complete Career Day Survey / Reflection
- Take Career Interest Profiler
- Take Do What You Are/Meyers-Briggs Personality Test
- Take Learning Styles Inventory
- Take Strength’s Explorer

Freshman Year: “Career Exploration”

- 4-Year Plan (*utilizing all self-assessments from 8th grade year*); Map future coursework.
- Complete Career Day Survey / Reflection
- Research details of careers identified in Career Interest Profiler. Complete career research survey.

Sophomore Year: “College Exploration”

- Complete Game Plan Survey during *Semester 1*
- Begin college exploration using Super Match feature during *Semester 2*
- Complete Career Day Survey / Reflection
- Begin to assemble a list under Colleges I’m Thinking About

Junior Year: “Refining College and Career Options”

- Register to attend presentations with college representatives who visit CHS
- Visit college campuses and complete College Visit Reflection after each visit
- Complete a mock college application during *Semester 1*
- Build a Resume during *Semester 2*
- Compile list of Colleges I am Applying To
- Research scholarship opportunities in Scholarship Match and Scholarship List

Senior Year: “Finalizing Post High School Plans”

- Complete College Applications – *outside links via Naviance*
- Complete Senior Profile Questionnaire
- Request official transcripts to accompany college applications
- Request letters of recommendations to accompany college applications
- Register to re-take ACT/SAT (*if necessary*)
- Register to attend presentations with college representatives who visit CHS
- Visit college campuses and complete College Visit Reflection after each visit
- Complete FAFSA – *outside link via Naviance*
- Research scholarship opportunities in Scholarship Match and Scholarship List
- Complete Senior Exit Survey

Note: Grade levels where tasks are completed are subject to change.

College & University Entrance Requirements

Because there are thousands of colleges and universities and because each one determines their own individual admissions requirements, we highly encourage students to thoroughly check the admissions web sites of the colleges and universities they are interested in applying to as well as consult with their school counselor. However, in general, most four year universities require the following at a minimum:

English	4 years
Mathematics	3 years (which must include Algebra 1, Geometry, and Algebra 2); 4 years recommended
Science	3 years laboratory science
Social Studies	3 years
Humanities/Foreign Lang.	2 years (some universities specifically require foreign language)

ENTRANCE REQUIREMENTS FOR TOP CHS COLLEGE DESTINATIONS

*Subject to change without notice

University	GPA	Composite ACT	Composite SAT	Other course Requirements for Admissions
Aurora University	2.5	19	980	Not required
Augustana College	3.0	23 - 29	1130 - 1380	2 years of one language
Illinois State University	3.03 - 3.78	21 - 26	1060 - 1270	2 years of one language or 2 years of fine arts
University of Iowa	3.69	23 - 28	1060 - 1270	2 years of one language
Iowa State University	3.6	25	1180	Not required
University of Minnesota	3.78 - Class rank 81-97%	28	1360	2 years of one language
University of Missouri	Not provided	24	1160	2 years of one language
North Central College	3.56	24	unknown	Multiple years of the same foreign language are strongly recommended
Northern Illinois University	2.5-2.75	19-23	990-1140	2 years of electives from foreign language, art or music
Purdue University	3.59 - 4.0	26 - 31	1160 - 1360	2 years of one language
Southern Illinois University	2.38 - 3.47	19 - 26	unknown	Not required. Used toward fulfillment of 2 year elective requirement. Must include two semesters of the same language.
University of Illinois - Chicago	3.03 - 3.60	22 - 26	unknown	2 years on one language recommended
University of Illinois - Urbana	3.37 - 3.89	27 - 33	1360 - 1480 (no writing)	2 years of one language but 4 years are strongly recommended and 2 years of coursework in art, music, or voc ed.
Western Illinois University	2.72 - 3.52	18-23	940 - 1150	2 years of electives from art, film, foreign language, music, speech, theater, journalism, or voc ed.

NCAA Initial Eligibility Standards

There are guidelines published and enforced by the National Collegiate Athletic Association (NCAA) which govern eligibility for athletic scholarships at Division I and II colleges. The NCAA judges course work of high school students and determines whether it meets the requirements for a scholarship.

NCAA Division I Initial Eligibility Requirements

Core Courses

Sixteen (16) core courses are required (see chart below for subject-area requirements).

- Ten core courses completed before the seventh semester; 7 of the 10 must be in English, math, or natural/physical science.
 - These courses/grades are “locked in” at start of seventh semester (cannot be repeated for grade-point average [GPA] improvement to meet initial-eligibility requirements for competition).

It is still possible for a Division 1 college-bound student-athlete to still receive athletics aid and the ability to practice with the team if he or she fails to meet the 10 course requirement, but would not be able to compete, by meeting the 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 following page).

- **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 subscores 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 the list as a guide.

Students must present a corresponding test score (ACT sum score or SAT combined score) and core course GPA (minimum 2.300) on Sliding Scale B (see following page).

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 1 Core-Course Requirement	Division 1 Qualifier Requirements (Aid, practice, & compete)	Division 1 Academic Redshirt Requirements* (Aid & practice but can not compete)
<ul style="list-style-type: none"> ● 16 core courses <ul style="list-style-type: none"> ○ 4 years of English ○ 3 years of math (Alg 1 or higher) ○ 2 years of natural/physical science ○ 1 year of additional English, math, or natural/physical science ○ 2 years of social science ○ 4 years of additional courses (any area above, foreign language, or comparative religion/philosophy) 	<ul style="list-style-type: none"> ● 16 core courses ● 10 core courses completed before the start of the seventh semester <ul style="list-style-type: none"> ○ 7 of the 10 must be in English, math, or natural/physical science <ul style="list-style-type: none"> ■ Locked in for core-course GPA calculation ● Corresponding test score (ACT sum or SAT combined score) and core-course GPA (min 2.300) on Sliding Scale B ● Graduate from high school 	<ul style="list-style-type: none"> ● 16 core courses ● No grades/credits locked in <ul style="list-style-type: none"> ○ Repeated courses after the seventh semester begins may be used for initial eligibility ● Corresponding test score and core-course GPA on Sliding Scale B. <ul style="list-style-type: none"> ○ Test - ACT sum score or SAT combined score ○ GPA - minimum 2.000 ● Graduate from high school

For more information, visit www.eligibilitycenter.org

NCAA Division II Initial Eligibility Requirements

Core Courses

Division II currently requires 16 core courses. See the chart below.

Beginning August 1, 2018, to become a full or partial qualifier for Division II, all college-bound student-athletes must complete the 16 core-course requirement.

Test Scores (ACT/SAT)

Division II currently requires a minimum SAT score of 820 or an ACT sum score of 68.

Beginning August 1, 2018, Division II will use a sliding scale to match test scores and core-course grade-point averages (GPA). The sliding scale for those requirements can be found at www.eligibilitycenter.org under the resources link.

The SAT score used for NCAA purposes includes **only** the critical reading and math sections. The writing section of the SAT is not used.

The ACT score used for NCAA purposes is a **sum** of the following four sections on the ACT: English, math, reading and science.

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

Be sure to look at Central High School's list of NCAA-approved core courses on the Eligibility Center Website (www.eligibilitycenter.org). Only courses that appear on Central High School's approved List of NCAA Courses will be used in the calculation of the core GPA. Use the list as a guide.

The current **Division II** core GPA requirement is a minimum of 2.000. **Division II** core GPA required to be eligible for competition on or after August 1, 2018, IS 2.200 (corresponding test-score requirements are listed on the Sliding Scale on the following page).

Remember, the NCAA core GPA is calculated using NCAA core courses only.

Division 2
<ul style="list-style-type: none">● 16 core courses<ul style="list-style-type: none">○ 3 years of English○ 2 years of math (Alg 1 or higher)○ 2 years of natural/physical science○ 3 year of additional English, math, or natural/physical science○ 2 years of social science○ 4 years of additional courses (any area above, foreign language, or comparative religion/philosophy)

Career & Technical Education

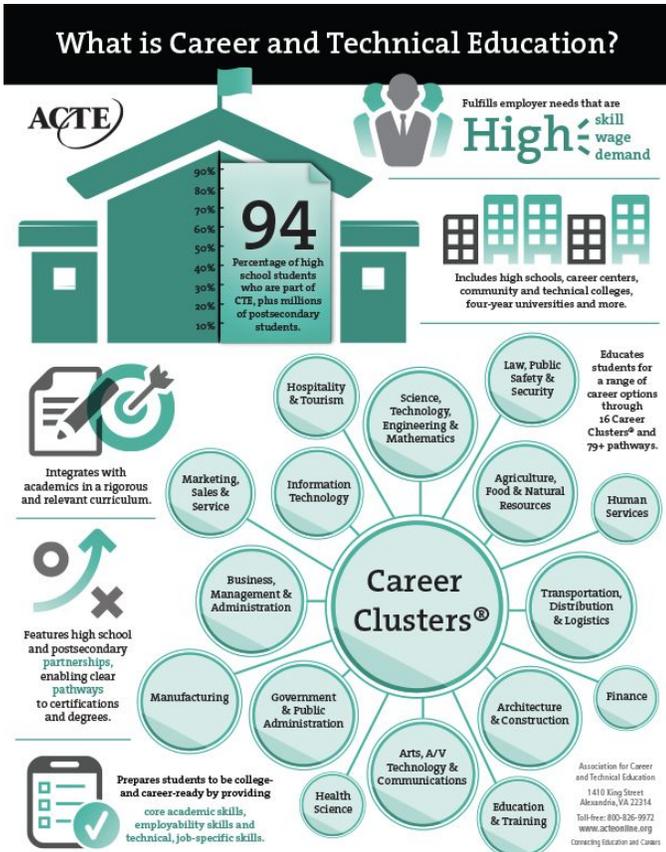


Image retrieved from <https://www.acteonline.org/cte/#.Wa1sRK2ZNMa>

The National Career Cluster Initiative

Career Clusters, Career Pathways, and Programs of Study The Illinois Community College Board (n.d.) provides the follow key concepts and definitions:

Career Clusters are groups of occupations and industries that have a set of foundational knowledge and skills in common. There are 16 nationally recognized clusters within which are multiple career pathways.

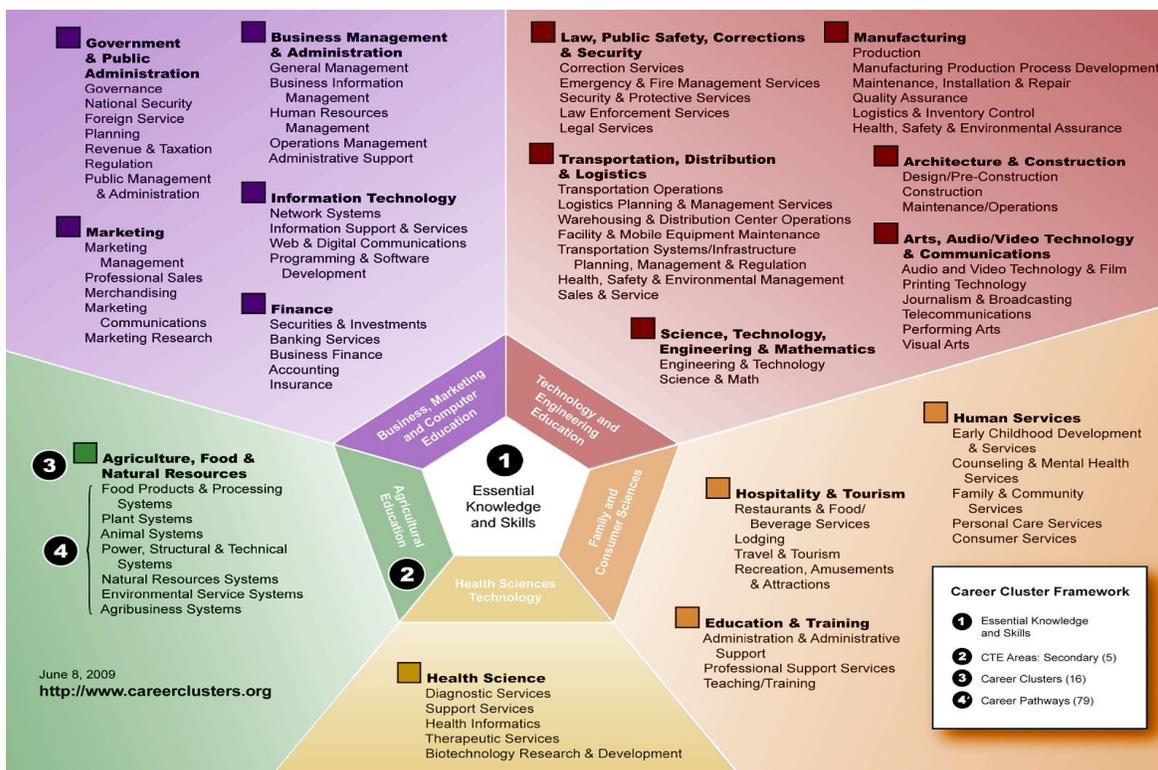
- ❖ **Cluster Level Knowledge and Skills:** The cluster level knowledge and skills set is built on a common core required for career success in the multiple occupations included in the cluster. This shared core consists of the following elements: academic foundations; communication; problem solving and critical thinking; information technology applications; systems; safety, health, and environment; leadership and teamwork; ethics and legal responsibilities; employability and career development; and technical skills.

Career Pathways are multi-year programs of academic and technical study that prepare high school students for a full range of postsecondary options within each of the 16 clusters.

Currently, there are 79 nationally recognized pathways, each with specific pathway knowledge and skills. These pathways provide a context for exploring career options at all levels of education and a framework for linking learning to the knowledge and skills needed for future education and employment.

- ❖ **Pathway Level Knowledge and Skills:** The pathway level knowledge and skills set is built on a common core of knowledge and skills required for career success in all programs of study aligned with the pathway. This core is specific to the pathway and consists of elements selected by secondary and postsecondary educators with input from business and industry and other stakeholders.

Programs of Study (POS) are sequences of courses that incorporate a non-duplicative progression of secondary and postsecondary elements, which include both academic and career and technical education content. Programs of study should start no later than the ninth grade and continue through at least two years of postsecondary education. Programs of study include opportunities to earn college credit (dual credit) in high school, an industry-recognized credential or certificate at the secondary/postsecondary level, and an associate or baccalaureate degree.



Why a Career Clusters Framework?

The framework of career pathways, career clusters, and programs of study organizes educational preparation and occupational choices into a unified concept. Career clusters provide a focus and path for students to pursue learning experiences that begin in P-12 education and extend through college to careers. Career clusters:

- are for all students;
- create distinct educational plans of study that students can follow from secondary to postsecondary education to the workplace;
- help create smooth transitions in the educational pipeline and reduce duplication;
- empower students through information and experiences they need to make informed educational choices;
- help counselors, teachers, parents, and students design individual plans of study; and
- comprise a key element in enhancing economic development by connecting schools with business and industry.

Who Benefits?

- **Students** benefit when there are links between education and careers. Career pathways provide career guidance and a framework for students to plan their future. Students are more motivated when they can see the relevance of their education and are provided with smooth transitions to college and careers.
- **Educators** (teachers, counselors, and administrators) benefit when they integrate academic and CTE curricula, partake in professional development, align with other school reform efforts, and receive support. Programs of study also connect educators with local business and industry to ensure that what students learn connects to current and emerging Careers.
- **Employers** benefit when they have the opportunity to partner with educators to prepare future employees by determining necessary skills, certifications, and current knowledge to succeed in the workforce.
- **Communities** benefit when business and industry partners with education for local economic development and educational planning. Higher levels of educational attainment contribute to a healthier local economy.

Career Technical Education (CTE)

	AGRICULTURE			BUSINESS, MARKETING, AND COMPUTER EDUCATION					TECHNOLOGY AND ENGINEERING EDUCATION (INDUSTRIAL)							
	Agricultural Science	Horticulture	Entrepreneurship	Computer Programming	Business & Personal/ Financial Services Marketing Operations	Accounting Technology / Technician and Bookkeeping	Administrative Assistant & Secretarial Science	Drafting and Design Technology / Technician, General	Science, Technology, Engineering and Mathematics	Video Productions Technology						
LEVEL 1 FOUNDATION COURSES	Level 1 courses are prerequisites unless otherwise specified			Level 1 courses are prerequisites unless otherwise specified					Level 1 courses are prerequisites unless otherwise specified			N/A				
LEVEL 2 SKILL COURSES	Introduction to Agriculture (Y)			Introduction to Business & Technology (S)					Introduction to Drafting & Digital Design (S)							
	Veterinary Science 1 (Y) (Grade 10-12)	Plant Science (S) (Grade 10-12)	INCubatoredu (Y) (Grade 10-12)	Intro Computer Programming (S) and/or Web Design (S) and/or MobileAppMaker (Y)	Marketing (Y) (Grade 11-12)	Accounting 1 (Y) (Grade 10-12)	Accounting 2 (Y) (Grade 11-12)	Microsoft Word and/or Excel (S) (Grade: 9-12)	Microsoft Word and/or Excel (S) (Grade: 9-12)	Accounting 1 (Y) (Grade 10-12)	Microsoft Word and/or Excel (S)	Accounting 1 (Y) (Grade 10-12)	Accounting 1 (Y) (Grade 10-12)	Accounting 1 (Y) (Grade 10-12)	Marketing (Y) and/or Excel (S) (Grade: 9-12)	Marketing (Y) and/or Excel (S) (Grade: 9-12)
	Veterinary Science 2 (Y) Prerequisite: Veterinary Science 1 (Grade 11-12)															
	Biotechnology (S) Prerequisite Level 1 course (Grade 10-12)															
LEVEL 3 PERFORMANCE COURSES																

Business, Marketing, & Computers



1009	Introduction to Business and Technology	Semester	0.5 Credits
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Prerequisites: 9th - 10th grade (11th - 12th grade w/department chair approval)

This orientation-level course will provide an overview of all aspects of business marketing and management, including the concepts, functions, and skills required for meeting the challenges of operating a business in a global economy. Topics covered will include the various forms of business ownership, including entrepreneurship, as well as the basic functional areas of business (finance, management, marketing, administration and production). Students will be introduced to a wide range of careers in business. Emphasis will be placed on using the computer while studying applications in these careers along with communication skills. Business ethics will be integrated within this course. This course will provide preparation for the skill level courses that make up the Business, Marketing and Management occupations programs, and is the orientation level course (prerequisite) for Accounting, Entrepreneurship and/or Marketing.

incubatoredu.

BY UNCHARTED LEARNING

1001/1002	INCubatoredu Entrepreneurship	Year	1.0 Credits
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Prerequisites: 10th - 12th grade and successful completion of Introduction to Business and Technology (or department chair approval)

This course is designed to get **students** excited about becoming true entrepreneurs by **giving them the opportunity to create and fully develop their own product or service** in a 21st century classroom learning environment. **Real-world entrepreneurs and business experts serve as coaches and mentors guiding student teams** through the process of ideation, market research, and business plan development. Over the course of the year, student teams learn about marketing, accounting, as well as the legal aspects of starting a business. They have **access to a network of professionals to further develop their skills (teamwork, problem solving, presentation, communication) for college and career readiness**. **Pitch Week** helps to further fire the entrepreneurial spirit by putting student teams in front of **actual investors** so they can pitch their innovative idea to win funding and turn their wishful thinking into a reality. Successful completion of this course fulfills the Consumer Education graduation requirement. **Student teams whose businesses are funded** for launch as well as students who were hired by those teams to operate a launched business **may be eligible to earn credit in year 2**. Read more at www.INCubatoredu.org.

1005/1006	Accounting 1	Year	1.0 Credits
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Prerequisites: 10th - 12th grade

Accounting ... the language of business. Success in the business world begins with an understanding of accounting. Students complete this course with the skills needed for college accounting courses - essential for business majors - office work, or managing their own small businesses. It includes learning experiences that develop initial and basic skills used in systematically computing, classifying, recording, verifying and maintaining numerical data involved in financial and product control records including the paying and receiving of money. Instruction includes information on keeping financial records, summarizing them for convenient interpretation, and analyzing them to provide assistance to management for decision making. Accounting computer applications will be integrated. In addition, instruction will provide an initial understanding of the preparation of budgets and financial reports, operation of related business machines and equipment, and career opportunities in the accounting field.

1007/1008 Accounting 2 **Year** **1.0 Credits**

Prerequisites: 11th - 12th grade and successful completion of Accounting 1

Accounting's influence in business and society, in general, goes much beyond ledgers, sheets and numbers. Studying accounting opens the doors to a whole range of interconnected careers, including finance management; business analysis; business management; investment advisory; risk management specialization; etc. Accounting 2 is a course that builds upon the foundation established in Accounting 1. This course is planned to help students to develop deeper knowledge of the principles of accounting with more emphasis being placed on financial statements and accounting records. It is a study of previously learned principles as they apply to the more complicated types of business organizations: partnerships, corporations, branches, etc.

1015/1016 Marketing **Year** **1.0 Credits**

Prerequisites: 11th - 12th grade

This course explores the basic principles of marketing such as the creation of concepts, strategies, and the development of marketing plans. Students learn about the components of the marketing mix, target marketing, sponsorship, event marketing, promotions, proposals, and execution of planning. This course emphasizes strong decision-making, critical thinking, and collaborative skills to complete group marketing projects throughout the semester. Marketing introduces students to this exciting field, which includes advertising, consumer research, product development, packaging, and selling. Students will be challenged to create new marketing ideas as they analyze current marketing trends. Real life projects allow students to demonstrate their understanding of these areas. This course will examine the impact of marketing in our everyday lives, as well as teach many critical business concepts to ready students for a career in the area of marketing.



1003/1004 MobileAppMaker **Year** **1.0 Credit**

Prerequisites: 10th - 12th grade and successful completion of Introduction to Business and Technology or Tech/Pre-Engineering

The MobileMakersEdu iOS course provides students an opportunity to build and deploy iOS applications using basic programming skills and iOS frameworks. Students learn the basics of object-oriented programming, basic data structures, and a solid understanding of how an iOS app is constructed. Using real-world industry tools and best practices, students create several working applications that grow in complexity throughout the year. Additionally, students learn how to employ Agile Project Management and work in an environment similar to that of a traditional development shop, thus improving their ability to work well under pressure, their time management skills, and their ability to prioritize and delegate work. Students leave with a portfolio of work and an appreciation for the skill sets needed in this technology-rich world. Read more at <http://mobilemakersedu.org/>.

1100 Introduction to Computer Programming **Semester** **0.5 Credits**

Prerequisites: 11th - 12th grade and successful completion of Algebra 1

Think that simply being able to use a computer is enough? Think again! In the information age, it is important to be empowered with the right combination of knowledge and technical skill set. This course is an introductory course designed to familiarize students with the general concepts of programming. Students will learn program design, logical thinking, and structured programming techniques through learning the easy-to-learn programming language **Python**. Students will build both a hangman game and a final project of their choice . *Course may be repeated.*

1100BL **Introduction to Computer Programming** **Semester** **0.5 Credits**
Blended

Prerequisites: 11th - 12th grade and successful completion of Algebra 1

This is the same course as Introduction to Computer Programming (and does fulfill the graduation requirement) but is offered in a blended teaching model. For more information about the blended model of instruction, please [click here](#).

Think that simply being able to use a computer is enough? Think again! In the information age, it is important to be empowered with the right combination of knowledge and technical skill set. This course is an introductory course designed to familiarize students with the general concepts of programming. Students will learn program design, logical thinking, and structured programming techniques through learning the easy-to-learn programming language **Python**. Students will build both a hangman game and a final project of their choice . *Course may be repeated.*

1105 **Web Design** **Semester** **0.5 Credits**

Prerequisites: 10th - 12th grade

We use the internet daily. Have you ever wondered how webpages are created? Have you wanted to make your own? This course introduces the basics of creating and publishing web pages on the Internet. Students learn the basics of HTML, CSS, and how to use a WYSIWYG web page editor. Topics include the basic markup codes, linking to other pages, graphics, lists, tables, multimedia, and forms, and much more. Students will create their own website. *Course may be repeated.*

1042 **Microsoft Word Certification** **Semester** **0.5 Credits**

Prerequisites: 9th - 12th grade

No matter what your career choice may be, Microsoft Word training is universally beneficial and can help you do your daily academic and job responsibilities faster, easier and more efficiently. Getting trained in Microsoft Word is an advantage in any job market. While many people have a basic proficiency in Microsoft Word, advanced training, especially certifications, can be a big help. It doesn't matter if you're new to MS Word or experienced, this course teaches the most basic features, but also delves into advanced tools that all students will find useful. This course is recommended for college, technical college, or world-of-work-bound students as it prepares students not only for future employment in a highly technological society but also provides them with the skills and computing knowledge needed for higher education. In addition, this course provides students the opportunity to acquire the knowledge and skills necessary to test for the Microsoft Office Specialist in Word. Earning a Microsoft Office Specialist certification can help students differentiate themselves in today's competitive job market.

1043 **Microsoft Excel Certification** **Semester** **0.5 Credits**

Prerequisites: 9th - 12th grade

Creating spreadsheets – don't pretend like those aren't important day-to-day business responsibilities. Many companies use a spreadsheet to analyze and evaluate information for numerical and financial data. Microsoft Excel can be used for such activities as creating financial statements, preparing budgets, creating charts/graphs, managing inventory and to manipulate numerical data and other numbers based information. It doesn't matter if you're new to MS Excel or experienced, this course teaches the most basic features, but also delves into advanced tools that students will find useful. This class is recommended for college, technical college, or world-of-work-bound students. Upon completion student will be able to: create and edit spreadsheets, format cells, columns, and rows in a professional manner, have the computer analyze and or calculate numerical data, and prepare data that achieves the goal efficiently and effectively. This course provides students the opportunity to acquire the knowledge and skills necessary to test for the Microsoft Office Specialist in Excel. Show your prospective employer that you're self-motivated, driven and willing to go the extra mile to hone your Microsoft Excel skills. When a hiring manager sifts through resumes that list similar skills, education and experience, your MOS certification will help you stand out.

1119/1120 Welding Technology I (OFF CAMPUS) Year 2.0 Credit

Prerequisites: 11th grade and the successful completion of Welding - Fundamentals, Beginning, Introduction

This course assists students in gaining the knowledge and developing the basic skills needed to be successful in welding technology. Units of instruction include arc, TIG and MIG welding, metallurgy, cutting metal using arc, plasma, and oxy-gas. In addition, students learn the basics of blueprint reading, welding symbols, precision measuring, layout, and production process planning. Students will also perform 3g vertical up welding for evaluation for American Welding Society certification.

1121/1122 Welding Technology II (OFF CAMPUS) Year 2.0 Credit

Prerequisites: 12th grade and the successful completion of Welding Technology I

This course builds on the skills and concepts and concepts introduced in Welding Technology I and will provide more in-depth skill development in various types of including horizontal, vertical, overhead, and circular techniques as well as 3G certification welds for MIG and or TIG. Units of instruction include advanced out of position arc, TIG and MIG welding, industry weld fabrication techniques and welding print interpretation and process organization. In addition the students will learn to analyze weld quality and troubleshoot problem welds.

REGIONAL PATHWAYS PROGRAM

Automotive Technology Program (this is a 3 year program)

1072/1073 Automotive Technology (OFF CAMPUS) Year 1.0 Credit

Prerequisites: 10th grade

This class will cover the basic fundamentals and proper procedures in vehicle diagnostics and repair through the combination of lab work and related instruction in the 4 National Automotive Technicians Education Foundation (NATEF <http://www.natef.org/about.cfm>) areas. Topics will include Electrical/Electronics, Brakes, Steering and Suspension, Engine Design, Construction and Performance. Students will demonstrate the use of hand tools, power tools and automotive diagnostic equipment. Students will use testing equipment to locate and identify potential vehicle problems.

1074/1092 Advanced Automotive Technology (OFF CAMPUS) Year 2.0 Credit

Prerequisites: 11th grade and Automotive Technology with a C or better both semesters.

This class will prepare students for the Automotive Service Excellence (ASE) (<http://www.ase.com/About-ASE/ASE-at-a-Glance.aspx>) testing that leads to certification and a career in the automotive field. Students use a variety of testing devices, equipment and specialty tools to supplement their learning in the 4 NATEF (<http://www.natef.org/about.cfm>) areas of advanced systems diagnosis. Students will apply intermediate testing and diagnostic techniques on electrical systems, fuel injection, ignition, computer systems, suspension, steering and brakes.

1094/1097 Automotive Service Repair (OFF CAMPUS) Year 2.0 Credit

Prerequisites: 12th grade and Advanced Automotive Technology with a C or better both semesters.

This is a two period class that prepares students for Automotive Service Excellence (ASE) (<http://www.ase.com/About-ASE/ASE-at-a-Glance.aspx>) testing certification and a career in the automotive field. Students engage in diagnosis of vehicles in a repair facility atmosphere by using a variety of testing instruments and specialty tools. Areas of study include advanced electrical, fuel injection, ignition, computer systems, emissions, steering/suspension, brakes and engine performance diagnosis and repair.

1058/1059 Video Production Year 1.0 Credit

Prerequisites: 9th - 12th grade

Video Production will primarily focus on storytelling and promotion through the use of film and video as well as producing simulated live events using the production news studio. This is a technical class with editing training in the Adobe Creative Suite. During the year, students will learn the various elements of pre-production, production, and post-production. Specifically, students will gain knowledge in story, script writing, storyboarding, cinematography, camera skills, file management, editing technique, title creation, audio recording, podcasting, and audio editing. During the year, students will create a host of projects from short narrative films, promotionals, documentaries, Youtube Vlogs, and even live event productions.

1057 Introduction to Drafting & Design Semester 0.5 Credits

Prerequisites: 9th - 12th grade Fee: \$10.00

In this course students will explore the nature of technology, technology systems, and the history, evolution, and characteristics of technology as well as its impact on our society, culture, economy, politics, and environment. Topics include: Technology Today & Tomorrow, Communication Engineering & Design, and Energy & Power Engineering & Design. Several hands-on activities in each unit lets students apply the engineering design process to design and make a product.

1056 Technology/Pre-Engineering 2 Semester 0.5 Credits

Prerequisites: 9th - 12th grade and successful completion of Technology/Pre-Engineering 1 Fee: \$10.00

In this course students will explore the nature of technology, technology systems, and the history, evolution, and characteristics of technology as well as its impact on our society, culture, economy, politics, and environment. Topics include: Construction Engineering & Design, Transportation Engineering & Design, and Bio Related Engineering & Design. Several hands-on activities in each unit lets students apply the engineering design process to design and make a product.

1060/1061 Computer Aided Drafting & Design - CADD Year 1.0 Credit

Prerequisites: 9th - 12th grade and successful completion of Pre-Algebra

In this course, students use AutoCAD and Inventor to explore skills required for technical drawings, graphic communications, and career studies within the engineering field. Topics include: 2D and 3D constructions, dimensioning, intermediate level mathematics, and fundamentals for Technical drawing. Course provides an introduction to AutoCAD and Inventor establishes a good basis for exploring and growing in the exciting field of Computer Aided Engineering. Autodesk AutoCAD certification will be offered upon completion.

1065/1066 CADD - 3D Modeling Year 1.0 Credit

Prerequisites: 10th - 12th grade and successful completion of CADD - Computer Aided Drafting & Design

In this course students use Autodesk Inventor to continue the CADD skills of Technical drawing and introduces the student to engineering drawing and advanced 3D modeling. Topics include: 3D constructions, 3D solid modeling, rendering and assembly, 3D mechanical design, documentation, and product simulation. Digital Prototyping with Inventor helps you to design and validate your products before they are built to deliver better products, reduce development costs, and get to market faster. Autodesk Inventor certification will be offered upon completion. 3D printing will be introduced in this course.

1067/1068 CADD - Architectural Drafting & Design Year 1.0 Credit

Prerequisites: 11th - 12th grade and successful completion of CADD - Introduction to Computer Aided Design

Students will use Autodesk Revit to produce/design various architectural drawings. Building Information Modeling (BIM), empowers design and construction professionals to bring ideas from concept to construction. Revit is an application that includes features for architectural design, MEP and structural engineering, and construction. Autodesk Revit certification will be offered upon completion.

AGRICULTURE EDUCATION



1200/1201 Introduction to Agricultural Science Year 1.0 Credit

Prerequisites: 9th - 10th grade

Fee: \$15.00 per semester

The Agriculture Science Program consists of three integral components: classroom instruction, participation in the FFA, and completing an agriculture science project. Classroom topics for this course will cover the basic concepts in all areas of agriculture that include the following: animal science, plant and soil science, horticulture, agribusiness, mechanics, and alternative energy. In addition to classroom instruction, participation in the National FFA Organization and completing a SAE project will also be expected, as those components allow students to build leadership, communication, and career skills from the course topics.

1205/1207 Veterinary Science 1 Year 2.0 Credits

Prerequisites: 10th - 12th grade and successful completion of Intro to Ag Science, or Department Chair Approval

Fee: \$15.00

Topics covered include: Small and companion animal industry, large animal industry, animal health, animal pharmaceuticals, veterinary office practices, animal restraint in the vet clinic, anatomy, and physiology. A class dissection of a small mammal is included, but an alternative project can be completed instead. In addition to classroom instruction, participation in the National FFA Organization and completing a SAE project will also be expected, as they are integral components of the Agriculture Science Program.

1206/1208 Veterinary Science 2 Year 2.0 Credits

Prerequisites: 11th - 12th grade and successful completion of Veterinary Science 1

Fee: \$15.00

This course further educates each student in the topics related to veterinary science. Topics include: veterinary medicine, animal ethics and welfare issues, animal nutrition, anatomy, physiology, animal CPR, and veterinary lab procedures. In addition to classroom instruction, participation in the National FFA Organization and completing a SAE project will also be expected, as they are integral components of the Agriculture Science Program.

1211 Biological Science Applications in Agriculture Semester 0.5 Credits
(BSAA): Plants

Prerequisites: 10th - 12th grade and successful completion of Intro to Ag Science or Department Chair Approval Fee: \$15.00

This course applies scientific principles to relevant agricultural applications. The major area of emphasis will be plant science with topics that include: plant anatomy, physiology, health and nutrition, growth, management, and reproduction. In addition to classroom instruction, participation in the National FFA Organization and completing a SAE project will also be expected, as they are integral components of the Agriculture Science Program.

1215 Biotechnology Semester 0.5 Credits

Prerequisites: 10th - 12th grade and successful completion of Intro to Ag Science or Department Chair Approval Fee: \$15.00

Course topics are divided within the two areas of animal and plant which include: Animal – cloning, genotyping, animal growth, gene transfers, and immunoassays; Plant - genetics, plant cloning, genetically modified organisms (GMO's), gene maps, electrophoresis, and gene transfers. In addition to classroom instruction, participation in the National FFA Organization and completing a SAE project will also be expected, as they are integral components of the agriculture education program.

Career Tech Education Capstone Courses

1095/1096 Career Internship Semester 0.5 Credits

Prerequisites: 11 -12th grade if orientation and skill level course in a pathway was successfully completed (Department Chair approval and application required)

An internship is a well-defined short-term work/learning experience to help you, the student, prepare for a chosen career field. You will be applying the skills you learned in your classroom to a career experience. Typically, you will be working on projects while working alongside practicing professionals. An internship is not a part-time job. It is an extension of the Career and Technology Education Program at CHS. Most importantly, it is an opportunity for you, the intern, to increase your knowledge in a career choice by being challenged in a business or educational environment.

9400/9401 Cooperative Education - Classroom Year 1.0 Credit

Prerequisites: 12th grade, Department Chair Approval and application. Must take the orientation level course for the relative career pathway

Cooperative Leadership and Internship Program (CLIP). Co-operative education combines academic study with practical work experience. The employment is a practical application directed towards the student's academic course of study. The co-operative education student is paid for their work experience, which is supervised and evaluated by both the employer and the co-operative education teacher. It gives students an opportunity to test skills learned in the classroom, and to expand their knowledge through related work experience. This experience provides students with a chance to practice the latest theories and approaches in their particular discipline. Working in several industries gives them a competitive edge when going out into the workforce and the opportunity to earn for their education.

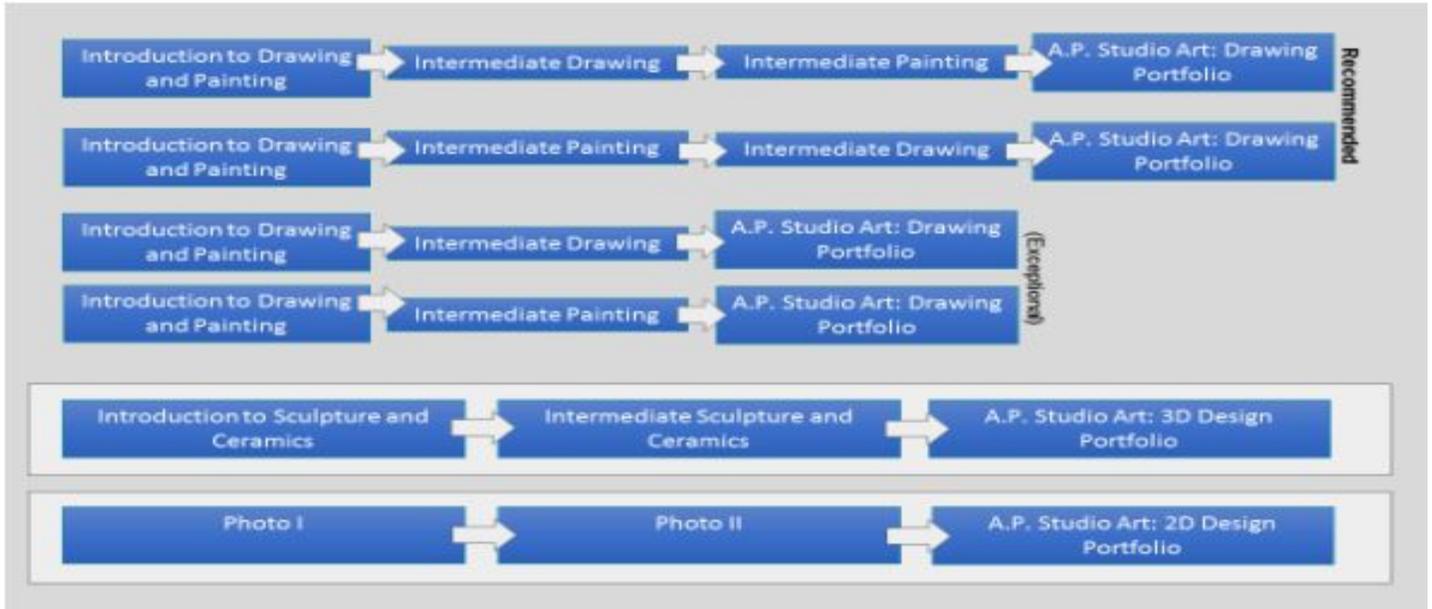
9405/9406 Cooperative Education - On The Job Training Year 2.0 Credit

Prerequisites: 12th grade, concurrently enrolled in Cooperative Education - Classroom, application and Department Chair approval

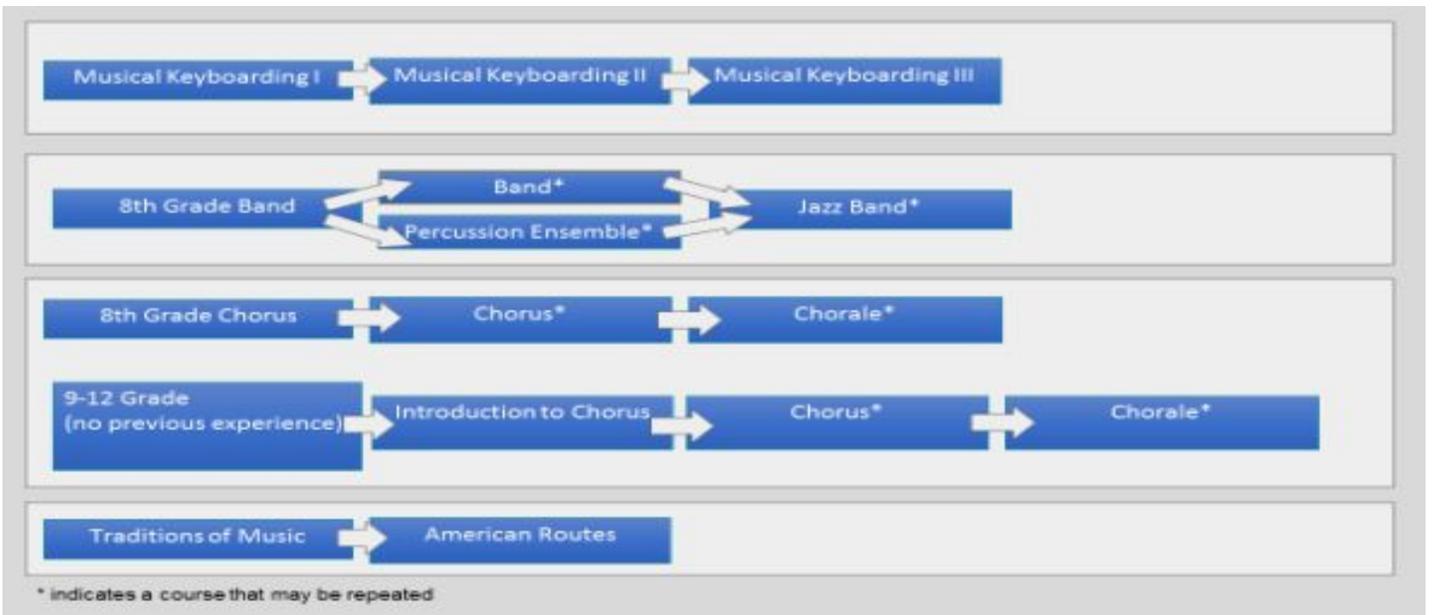
Cooperative Leadership and Internship Program (CLIP). Students are responsible for securing their own employment in an appropriate (approved) work site. Must work a minimum of 15 hours per week. Must attempt to seek employment in a chosen area of career interest.

Humanities: Fine Arts/Foreign Language

Art Education Flow Chart:



Music Education Flow Chart:

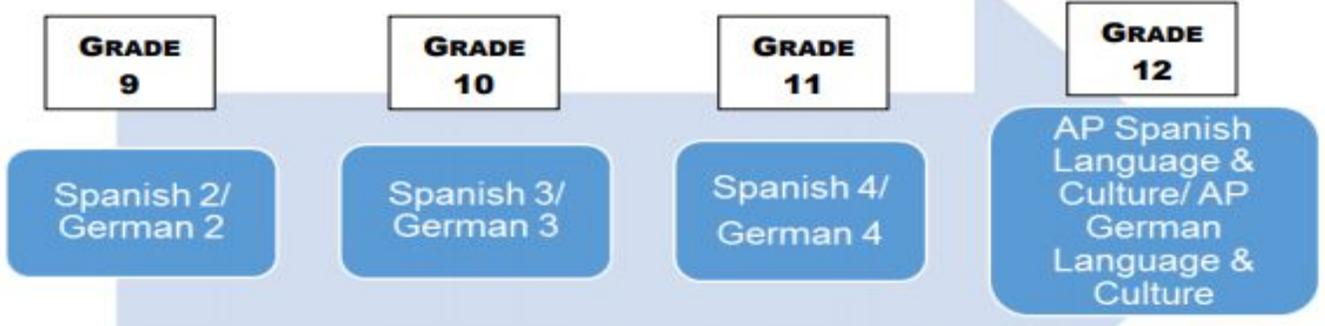


Theater Education Flow Chart:



SPANISH/GERMAN ADVANCED TRACK:

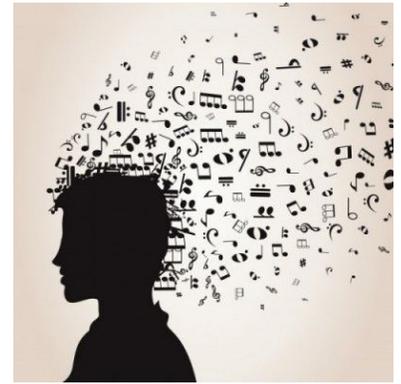
Grade 8: Spanish 1/German 1



SPANISH/GERMAN GRADE LEVEL TRACK:



Music Education



2000 Introduction to Band Semester 0.5 Credits

Prerequisites: 9th - 12th grade Fee: \$10.00

For students who wish to learn to play a band instrument. Students must have a band instrument available or be willing to rent one. Students participate in all marching and concert band activities.

2005/2006 Band Year 1.0 Credit

Prerequisites: 9th - 12th grade and prior experience on a band instrument Fee: \$10.00 per semester

Study and perform a wide variety of band literature, including instruction in rhythm, blend, balance, and tone quality. Students participate in all marching and concert band activities. *Course may be repeated.*

2010/2011 Jazz Ensemble Year 1.0 Credit

Prerequisites: 9th - 12th grade and instructor approval Fee: \$10.00 per semester

Study and perform jazz and pop literature, theory, and history. Students participate in all marching and concert band activities. *Course may be repeated.*

2012/2013 Percussion Ensemble Year 1.0 Credit

Prerequisites: 9th - 12th grade Fee: \$10.00 per semester

Open to all students who are interested in learning about and performing on the vast types of percussion instruments. Students will perform multiple concerts per semester as well as participating in the Marching Band program. Curriculum will include history, development, theory, and technique in a performance-oriented setting. *Course may be repeated.*

2023 Introduction to Chorus Semester 0.5 Credits

Prerequisites: 9th - 12th grade

For beginning chorus students to learn basic skills in music theory, aural skills, and musicianship before enrollment in Chorus.

2025/2026 Chorus Year 1.0 Credit

Prerequisites: 9th - 12th grade and prior choral experience or instructor approval

Study and perform traditional and contemporary choral literature. Students learn the fundamentals of good singing, music notation, sight reading, breath control, tone production, and listening techniques. *Course may be repeated.*

2030/2031 Chorale Year 1.0 Credit

Prerequisites: 11th - 12th grade, prior choral experience, audition, and instructor approval

Study advanced choral literature in a small ensemble setting. Emphasis on performing techniques and music reading skills. *Course may be repeated.*

2035 Traditions of Music Semester 0.5 Credits

Prerequisites: 9th - 12th grade

This is a music survey course which explores the origins of music and the effect of previous musical styles and composers on current popular music.

2036 Music Video Production Semester 0.5 Credits

Prerequisites: 11th - 12th grade

Students will create music videos combining appropriate visual and musical sources from various historical periods. Will also develop senior video for graduation. Must have access to a digital video recorder. Preference to seniors.

2037 American Routes in Music Semester 0.5 Credits

Prerequisites: 9th - 12th grade and C or better in Traditions of Music

Students will develop and understand a deeper appreciation of musical forms throughout the 20th Century. Emphasis is on the development of jazz, country, Broadway, rock & roll, and many others.

2038 Music Theory 1 Semester 0.5 Credits

Prerequisites: 11th - 12th grade, strong music background, and instructor approval

For the serious music student. Suggested for any student considering a music major or minor in college. Concentrates on principles of music theory with emphasis on practical knowledge, basic 4-part writing, and aural development.

2039 Music Theory 2 Semester 0.5 Credits

Prerequisites: 11th - 12th grade and successful completion of Music Theory 1 or instructor approval

A continuation of Music Theory 1 with more emphasis on ear training, sight-singing, chromatic harmonic analysis, and more complex 4-part writing. Arranging for ensembles and compositional styles and techniques will be done as well.

[Theater Education](#)



2040 Theater 1 Semester 0.5 Credits

Prerequisites: 9th - 12th grade

Perform individually and in small groups, studying pantomime, improvisation, and basic acting techniques for drama and comedy. The technical aspects of theater history may also be covered.

2045 Theater 2 Semester 0.5 Credits

Prerequisites: 9th - 12th grade and successful completion of Theater 1

A continuation of the Theater 1 class. Students will study advanced concepts in acting and production. Emphasis is on memorization and scene preparation.

2046 Theater 3 Semester 0.5 Credits

Prerequisites: 11th - 12th grade and successful completion of Theater 1 and Theater 2

A continuation of Theater 2 class. Students will create, stylize, and perform advanced theatrical concepts. Emphasis is on varying theatrical periods and classroom participation.

2070/2071 Photography 1 **Year** **1.0 Credit**

Prerequisites: 9th - 12th grade

Fee: \$75.00 per semester

Students will explore depth of field using different apertures, the elements and principles of design, lighting techniques, motion experimentation, angle compositions, and color theory through the use of photography. Semester one will include basic darkroom and camera techniques and digital photography using Adobe Photoshop. Students must provide their own manual 35mm SLR camera with manual aperture and shutter settings. Additional fees will be assessed for photo paper.

2075/2076 Photography 2 **Year** **1.0 Credit**

Prerequisites: 10th - 12th grade and B or better in Photography 1 or instructor approval

Fee: \$75.00 per semester

Students will explore photography by experimentation of medium and technique. Students will compose a series of photographs, conveying a cohesive concept. Students must provide their own manual 35mm SLR camera with manual aperture and shutter settings. Students will do most of their assignments in Adobe Photoshop. Additional fees will be assessed for photo paper.

2085/2086 Intermediate Painting **Year** **1.0 Credit**

Prerequisites: 10th - 12th grade and successful completion of Intro to Drawing & Painting

Fee: \$55.00 per semester

Students will develop their artistic style while exploring the elements of art and principles of design, utilizing watercolor, acrylic, and oil paint. Students will revisit and build upon the techniques and media introduced previously producing more advanced art works. Students will paint subject matter from life, from reference, and from their mind. Students will create a series of paintings in their choice of painting media that develops a definitive mark and conveys a cohesive concept.

2205/2206 AP Studio Art: 2-D Design Weighted grade **Year** **1.0 Credit**

Prerequisites: 11th - 12th grade, B or better in Photography 1 and Photography 2, summer work, portfolio review in January, and instructor approval **Fee: \$75.00 per semester**

This class is designed for highly motivated students to do college-level work. A portfolio of about 30 pieces will be submitted in April. The photography pieces should demonstrate your understanding of design principles as applied to photography. The student will have to provide some materials.

2210/2211 AP Studio Art: Drawing Weighted grade **Year** **1.0 Credit**

Prerequisites: 12th grade, B or better in 2 years of 2D-Art classes, summer work, portfolio review in January, and instructor approval **Fee: \$55.00 per semester**

Students will compile a series of works that explore a drawing/painting concept, synthesizing the elements & principles of art and design as they relate to drawing and/or painting. Students will compile and submit a portfolio that contains actual works and slides of the work created throughout the course. Students will create original, outstanding exemplary works of art, while developing a definitive style and mark.

2215/2216 AP Studio Art: 3-D Design Weighted grade **Year** **1.0 Credit**

Prerequisites: 12th grade, B or better in 2 years of 3D-Art classes, summer work, portfolio review in January, and instructor approval **Fee: \$55.00 per semester**

Students will compile a series of works that explore a sculptural concept, synthesizing the elements & principles of art and design as they relate to sculpture. Students will create original exemplary works of art. Students will compile a portfolio that contains slides of the work created throughout the course, while developing a definitive style and mark.

Foreign Language



3000/3001 Spanish 1 **Year** **1.0 Credit**

Prerequisites: 9th - 12th grade

Designed to introduce students to Spanish language and culture. Spanish I emphasizes basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people.

3005/3006 Spanish 2 **Year** **1.0 Credit**

Prerequisites: 9th - 12th grade and a C or better in Spanish 1 or instructor approval

Spanish 2 builds upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s).

3010/3011 Spanish 3 **Year** **1.0 Credit**

Prerequisites: 10th - 12th grade and a C or better in Spanish 2 or instructor approval

Spanish 3 focuses on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

3010BL Spanish 3 Blended **Year** **1.0 Credit**
/3011BL

Prerequisites: 10th - 12th grade and a C or better in Spanish 2 or instructor approval

This is the same course as Spanish 3 but is offered in a blended teaching model. For more information about the blended model of instruction, please [click here](#).

Spanish 3 focuses on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

3015/3016 Spanish 4 **Year** **1.0 Credit**

Prerequisites: 11th - 12th grade and a C or better in Spanish 3 or instructor approval

Spanish 4 focuses on advancing students' skills and abilities to read, write, speak, and understand the Spanish language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary.

3022/3023 AP Spanish Language & Culture Weighted grade **Year** **1.0 Credit**

Prerequisites: 11th - 12th grade and B or better in Spanish 3 and Spanish 4 or instructor approval

Designed by the College Board to parallel third-year college-level courses in Spanish Composition and Conversation, AP Spanish Language builds upon prior knowledge and develop students' ability to understand others and express themselves (in Spanish) accurately, coherently, and fluently in both formal and informal situations. Students will develop a vocabulary large enough to understand literary texts, magazine/newspaper articles, films and television productions, and so on.

3025/3026 German 1 **Year** **1.0 Credit**

Prerequisites: 9th - 12th grade

Designed to introduce students to German language and culture, German I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. German culture is introduced through the art, literature, customs, and history of the German-speaking people.

3030/3031 German 2 **Year** **1.0 Credit**

Prerequisites: 9th - 12th grade and C or better in German 1 or instructor approval

German 2 builds upon skills developed in German I, extending students' ability to understand and express themselves in German and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of German-speaking people to deepen their understanding of the culture(s).

3035/3036 German 3 **Year** **1.0 Credit**

Prerequisites: 10th - 12th grade and C or better in German 2 or instructor approval

German 3 focuses on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

3040/3041 German 4 **Year** **1.0 Credit**

Prerequisites: 11th - 12th grade and C or better in German 3 or instructor approval

German 4 focuses on advancing students' skills and abilities to read, write, speak, and understand the German language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary.

3047/3048 AP German Language & Culture Weighted grade **Year** **1.0 Credit**

Prerequisites: 11th - 12th grade and B or better in German 3 and German 4 or instructor approval

Designed to parallel third-year college-level courses in German Language, AP German Language courses build upon prior knowledge and develop students' ability to understand spoken German in various conversational situations, to express themselves (in German) accurately and fluently, and to have a command of the structure of the German language. Students will develop a vocabulary large enough to understand literature, magazine/newspaper articles, films and television productions, and so on.

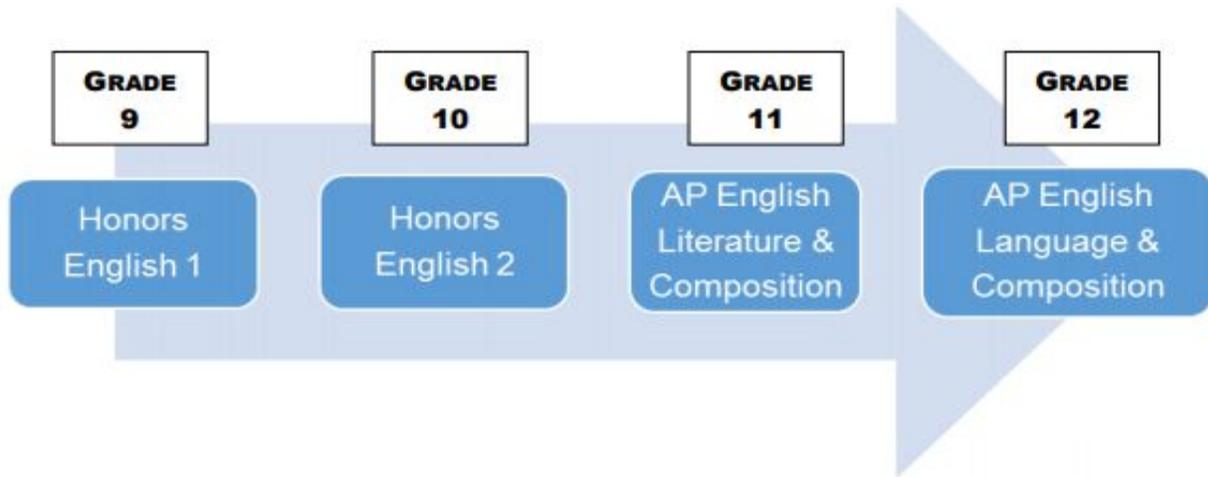
Prerequisites: 11th - 12th grade and B or better in German 3 and German 4 or instructor approval

This is the same course as AP German but is offered in a blended teaching model. For more information about the blended model of instruction, please [click here](#).

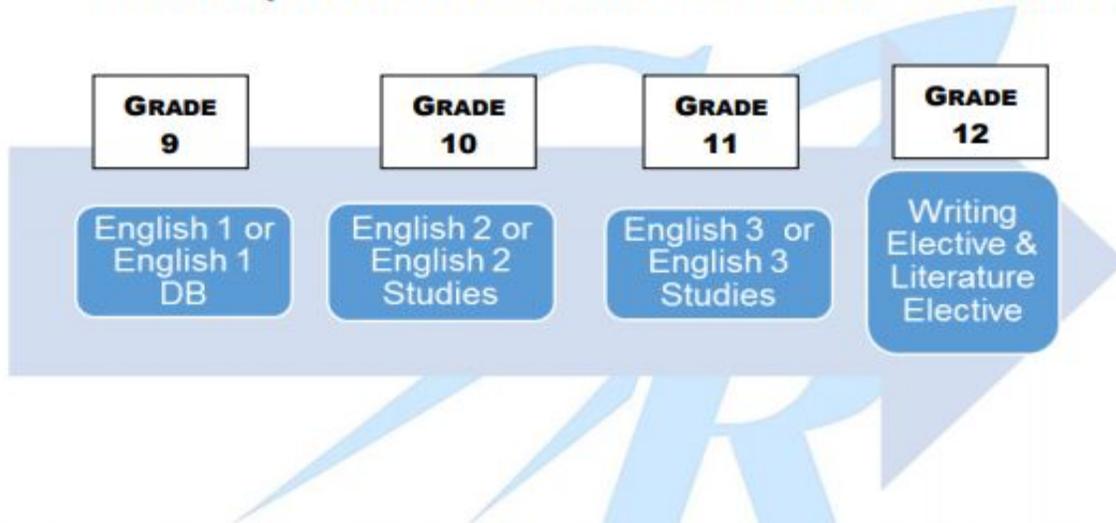
Designed to parallel third-year college-level courses in German Language, AP German Language courses build upon prior knowledge and develop students' ability to understand spoken German in various conversational situations, to express themselves (in German) accurately and fluently, and to have a command of the structure of the German language. Students will develop a vocabulary large enough to understand literature, magazine/newspaper articles, films and television productions, and so on.

English

HONORS/AP ENGLISH SUGGESTED COURSE FLOW



COLLEGE/CAREER-READY ENGLISH SUGGESTED COURSE FLOW



Literature/Reading Elective Options: British Literature, Contemporary Literature, or Science Fiction/Fantasy Literature.

Writing Elective Options: Advanced Composition, Writer's Craft, Creative Writing.

Other Elective Options: Journalism 1, Journalism 2, Speech.

English



4000/4001 English 1 **Year** **1.0 Credit**

Prerequisites: 9th

Students study various styles of composition and research, elements of grammar, writing mechanics, and vocabulary. Course content includes the study of short stories, novels, nonfiction, and poetry.

4012/4013 Honors English 1 Weighted grade **Year** **1.0 Credit**

Prerequisites: 9th grade, test scores, and teacher recommendation

This course is an honors survey class in which the focus is placed on complex literature, vocabulary, composition, research, and informative speaking. Students analyze fiction, nonfiction, drama, and legends. This foundational course requires in-depth analysis, evaluation, and critical thinking and writing. **This course requires summer work.**

4020/4021 English 2 **Year** **1.0 Credit**

Prerequisites: 10th grade

This course covers the literature written in the United States from the Colonial Period to the present. Focus is placed on the content, background, and authors of a wide variety of prose, poetry, and nonfiction. Students will write extended essays, reading responses, narratives, and research papers each quarter.

4022/4023 Honors English 2 Weighted grade **Year** **1.0 Credit**

Prerequisites: 10th grade, test scores, and teacher recommendation

This course covers the literature written in the United States from the Colonial Period to the present. A focus is placed on the content, background, and authors of a wide variety of prose and poetry. Students will study the literary periods and the historical development of American literature. Students will write extensively, including research, argument, literary analysis, and reading responses. In addition, students will create original projects and speak informatively. **This course requires summer work.**

4028/4029 English 3 **Year** **1.0 Credit**

Prerequisites: 11th grade

This year long course is designed to prepare students for both academic and professional writing, in addition to public speaking. Students will also examine literature using both fiction and nonfiction texts. Emphasis will be placed on determining the correct voice, tone, formality, and genre for each situation.

4028BL/ 4029BL English 3 Blended **Year** **1.0 Credit**

Prerequisites: 11th grade

This year long course is designed to prepare students for both academic and professional writing, in addition to public speaking. Students will also examine literature using both fiction and nonfiction texts. Emphasis will be placed on determining the correct voice, tone, formality, and genre for each situation.

4040/4041 AP English Literature & Composition Weighted grade **Year** **1.0 Credit**

Prerequisites: 11th grade and Honors English 2 or instructor approval

Combines English Literature and expository writing. Emphasis is on analysis and interpretation of individual literary works. Stresses the process of writing essays. This course is required for AP English Language & Composition. **This course requires summer work.**

4038 Contemporary Literature **Semester** **0.5 Credits**

Prerequisites: 12th grade

This course is a survey of post-modern literature with an emphasis on discussion and argument. Focuses on the global and multicultural nature of contemporary society through various styles and genres: poems, essays, short stories, plays, and novels.

4038BL Contemporary Literature Blended **Semester** **0.5 Credits**

Prerequisites: 12th grade

This is the same course as Contemporary Literature but is offered in a blended teaching model. For more information about the blended model of instruction, please [click here](#).

This course is a survey of post-modern literature with an emphasis on discussion and argument. Focuses on the global and multicultural nature of contemporary society through various styles and genres: poems, essays, short stories, plays, and novels.

4044 British Literature **Semester** **0.5 Credits**

Prerequisites: 12th grade

The study of British Literature from *Beowulf* through modern literature and will include Medieval, Renaissance, and the Romantic periods while studying authors such as Shakespeare, Chaucer, and Stevenson.

4050/4051 AP English Language & Composition Weighted grade **Year** **1.0 Credit**

Prerequisites: 12th grade and AP English Literature & Composition or instructor approval

This course is a college-level study of challenging texts written in a variety of disciplines and rhetorical contexts. Writing and reading will stress critical analysis and interpretation. Students will read and analyze complex text, synthesize research materials, and write in both formal and informal contexts. **This course requires summer work.**

4055 Speech Communication **Semester** **0.5 Credits**

Prerequisites: 12th grade

Covers the principles of communication. Speeches that inform, persuade, inspire, and convince are required, culminating in a polished speech that reflects good communication skills.

4065/4066 Introduction to Journalism **Year** **1.0 Credit**

Prerequisites: 10th - 12th grade

This course is an introductory level designed to examine how responsible Journalism is created through a variety of platforms such as printed media, web based information delivery systems, and broadcast video. Students will participate in creating the school newspaper, video broadcasting, and web-based information delivery.

4070/4071 Journalism Production **Year** **1.0 Credit**

Prerequisites: 11th - 12th grade and successful completion of Journalism 1/Introduction to Journalism

Students write extensively in the basic news media forms – straight news, sports, features, editorials, and columns. Specific skills may be developed in editing, newspaper management, layouts, and advertising.

4072/4073	Advanced Journalism Production & Career Internship	Year	1.0 Credit
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Prerequisites: 11th - 12th grade and successful completion of Journalism 2/Journalism Production

Students in this course and career internship will examine the importance of responsible leadership within the realm of Journalism. Focusing on the leadership component of the news, students will lead their own team of student journalists through a variety of platforms of information delivery, including printed material, video based streaming, and web-based reporting.

4080	Advanced Composition	Semester	0.5 Credits
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Prerequisites: 12th grade

Instruction and practice in the many types of writing, i.e. narrative, argumentative, research-based, descriptive, literary criticism, etc. Some reading will be required.

4080BL	Advanced Composition Blended	Semester	0.5 Credits
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Prerequisites: 12th grade

This is the same course as Advanced Composition but is offered in a blended teaching model. For more information about the blended model of instruction, please [click here](#).

Instruction and practice in the many types of writing, i.e. narrative, argumentative, research-based, descriptive, literary criticism, etc. Some reading will be required.

4090	Writer's Craft	Semester	0.5 Credits
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Prerequisites: 12th grade

Recommended for students who struggle in writing. Focus is placed on the fundamentals of writing, including grammar, mechanics, and spelling as well as the different types of writing. This class may not be taken in conjunction with Advanced Composition.

4095	Creative Writing	Semester	0.5 Credits
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Prerequisites: 12th grade

This course explores writing as an art. Students will read and analyze poetry, short stories, essays and excerpts, and create works of fiction, non-fiction, research, poetry, and drama. Students will critique their own work and that of their classmates. Throughout the semester students will compile a portfolio of revised work.

4095BL	Creative Writing Blended	Semester	0.5 Credits
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Prerequisites: 12th grade

This is the same course as Creative Writing but is offered in a blended teaching model. For more information about the blended model of instruction, please [click here](#).

This course explores writing as an art. Students will read and analyze poetry, short stories, essays and excerpts, and create works of fiction, non-fiction, research, poetry, and drama. Students will critique their own work and that of their classmates. Throughout the semester students will compile a portfolio of revised work.

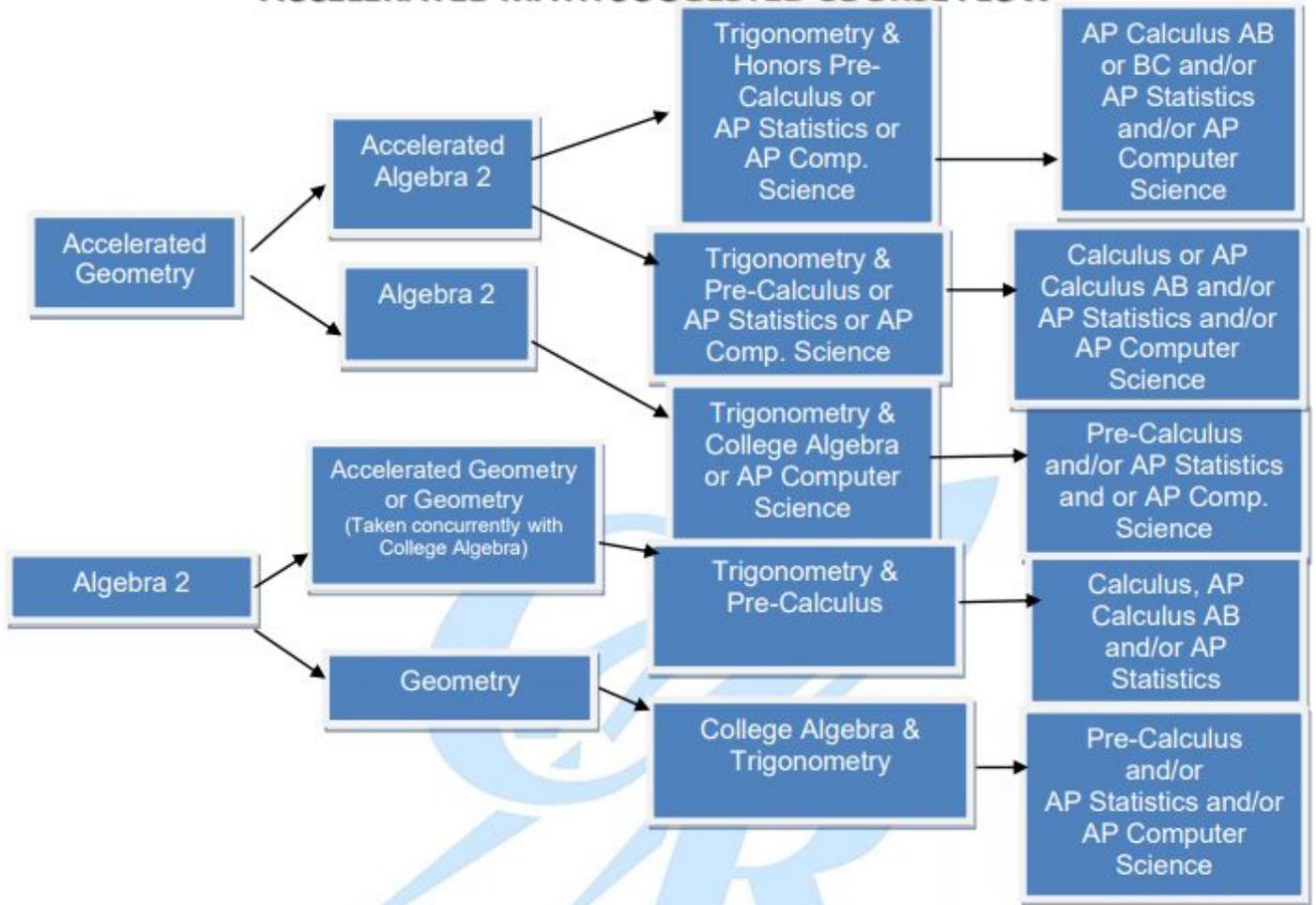
4105	Science Fiction/Fantasy Literature	Semester	0.5 Credits
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Prerequisites: 12th grade

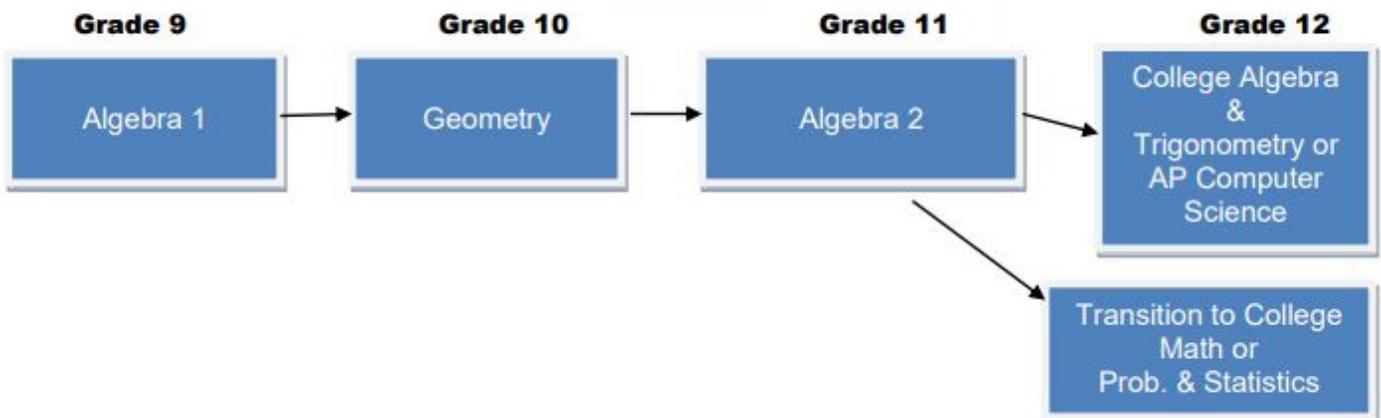
Students explore the genres of science fiction and fantasy. Readings will include short stories, nonfiction, and current events. Critical thinking, reading, writing, and research skills are required.

Mathematics

ACCELERATED MATH SUGGESTED COURSE FLOW

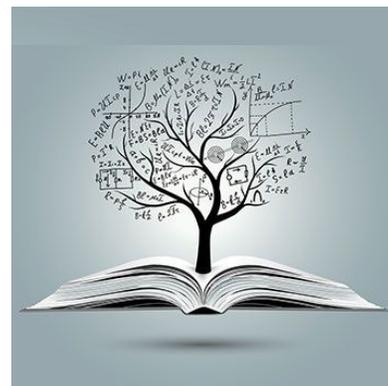


COLLEGE/CAREER-READY MATH SUGGESTED COURSE FLOW



Mathematics

All courses require a graphing calculator (TI 83 or above).



5035/5036 Algebra 1 **Year** **1.0 Credit**

Prerequisites: 9th- 12th grade

Algebra 1 includes the study of functions, comparing functions, equations, systems of equations and inequalities, descriptive statistics, quadratic functions and equations, exponents, and nonlinear functions.

5045/5046 Algebra 2 **Year** **1.0 Credit**

Prerequisites: 9th - 12th grade, and successful completion of Algebra 1

Algebra 2 course topics include field properties and theorems, set theory, operations with rational and irrational expressions, factoring of rational expressions, in-depth study of linear equations and inequalities, quadratic equations, solving systems of linear and quadratic equations, graphing and solving constant linear and quadratic equations, properties of higher degree equations, and operations with rational and irrational exponents and work with the complex number system.

5052/5053 Accelerated Algebra 2 **Year** **1.0 Credit**

Prerequisites: 9th - 12th grade, successful completion of Accelerated Geometry, or B or better in Algebra 1 and instructor conference

This course includes all concepts in Algebra 2 and extends the algebraic concepts. Course topics include (but are not limited to) operations with rational and irrational expressions, factoring of rational expressions, linear equations and inequalities, quadratic equations, solving system of linear and quadratic equations, properties of higher degree equations, complex numbers, logarithms, conic sections, and rational and irrational exponents.

5055/5056 Geometry **Year** **1.0 Credit**

Prerequisites: 10th - 12th grade, successful completion of Algebra 1

Geometry emphasizes an abstract and formal approach. Topics included are properties of plane and solid figures, deductive methods of reasoning and use of logic, the study of postulates, theorems and formal proofs, concepts of congruence, similarity, parallelism, perpendicularity and proportion, rules of angle measurement in triangles, polygons, and circles.

5067/5068 Accelerated Geometry **Year** **1.0 Credit**

Prerequisites: 9th - 10th grade, B or better in Algebra 1

Accelerated Geometry covers the same topics as in Geometry demanding more critical thinking skills. Course content will emphasize more stringent proofs. Extension topics will include topics in trigonometry and more complex composite polyhedrons.

5100/5101 AP Calculus AB Weighted Grade **Year** **1.0 Credit**

Prerequisites: 11th - 12th grade and earn an 85% or higher in Pre-Calculus

This course yields a weighted grade. Following the College Board's suggested curriculum, this course is designed to parallel college-level calculus courses. AP Calculus AB provides students with an intuitive understanding of concepts of calculus and experience with its methods and applications. Topics in this course include the following and are presented in a time frame that will allow the students to take the AP exam in early May: limits, continuity, differential and integral calculus and their applications.

5105/5106 AP Statistics Weighted Grade **Year** **1.0 Credit**

Prerequisites: 11th - 12th grade and B or better in Accelerated Algebra 2 or College Algebra

This course yields a weighted grade. Following the College Board's suggested curriculum, this course is designed to parallel college-level statistics courses. AP Statistics includes the following topics and are presented in a time frame that will allow the students to take the AP exam in early May: An introduction to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference.

5110/5111 AP Calculus BC Weighted Grade **Year** **1.0 Credit**

Prerequisites: 11th - 12th grade and successful completion of Honors Pre-Calculus

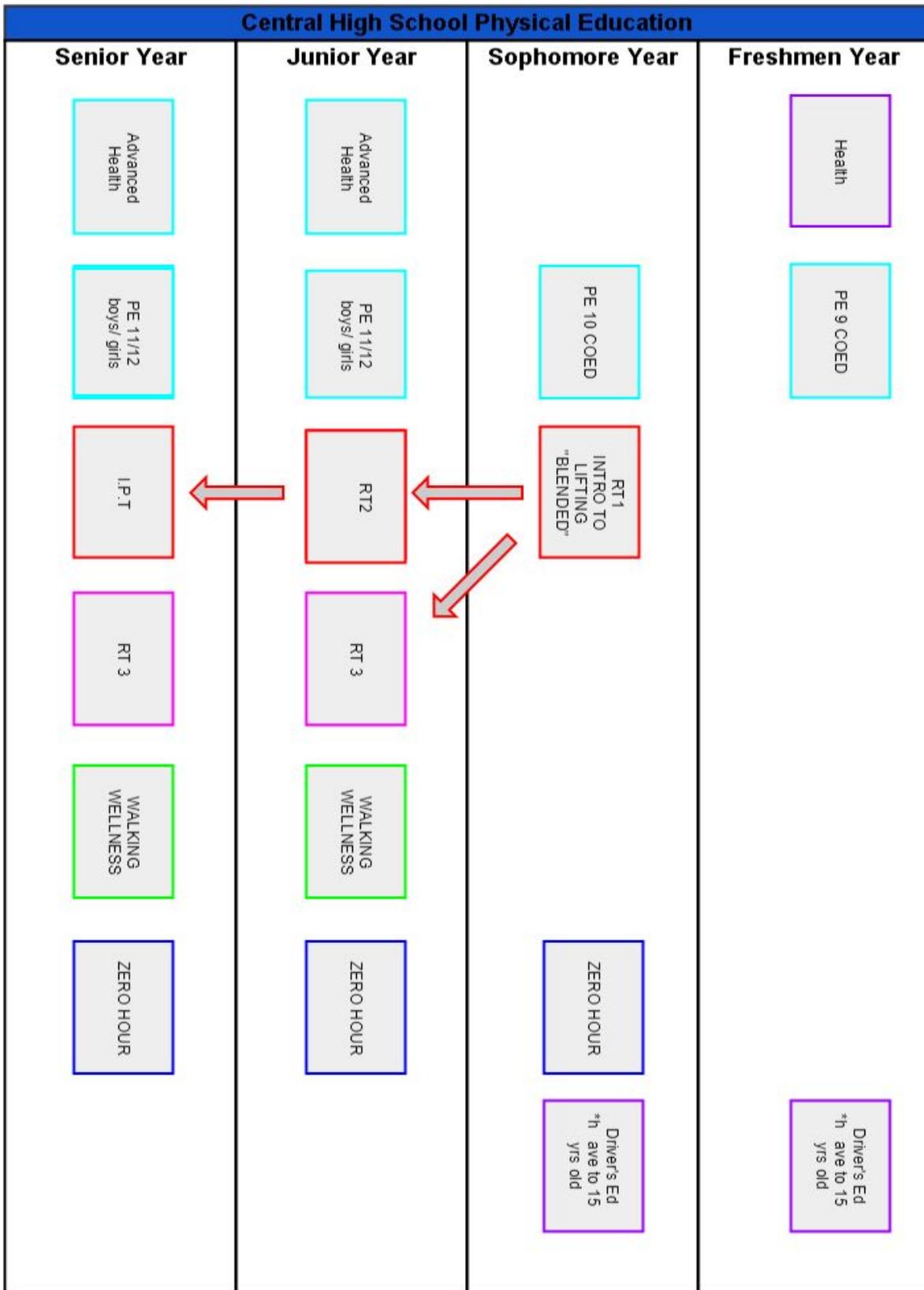
This course yields a weighted grade. Following the College Board's suggested curriculum, this course is designed to parallel college-level calculus courses. AP Calculus BC provides students with an intuitive understanding of concepts of calculus and experience with its methods and applications, and also requires additional knowledge of the theoretical tools of calculus. Topics of the course include the topics covered in AP Calculus AB as well as the following topics: vector functions, parametric equations and polar coordinates, rigorous definitions of finite and non-existent limits, derivatives of vector functions and parametrically defined functions, advanced techniques of integration and advanced applications of the definite integral, sequences, and series. The topics are presented in a time frame that will allow the student to take the AP exam in early May.

1115 AP Computer Science Weighted Grade **Year** **1.0 Credit**

Prerequisites: 11th - 12th grade (Algebra 2 and Introduction to Computer Programming recommended)

Advanced Placement Computer Science is a rigorous, college-level course designed to prepare students for the AP[®] Computer Science A examination using the Java programming language. This course emphasizes object oriented programming methodology with a concentration on problem solving and algorithm development. It also includes the study of data structures, design, and abstraction. Many topics in this course are mathematically intensive and require a firm understanding of algebraic concepts and experience in problem solving. Students should be comfortable with functions and the concepts found in the uses of functional notation, such as $f(x) = x + 2$ and $f(x) = g(h(x))$. This course builds upon a foundation of mathematical reasoning that should be acquired before attempting this course. Documentation plays a central role in the programming methodology.

Wellness: Health/Driver's Education/PE



6060 **Health 1** **GRAD REQ** **Semester** **0.5 Credits**

Prerequisites: 9th grade

Covers attitudes and practices related to healthy living. Units include self-image, relationships human anatomy including reproduction, AIDS and other communicable diseases and community health. Taken in lieu of one semester of P.E. in the freshman year.

6060BL **Health 1 Blended** **GRAD REQ** **Semester** **0.5 Credits**

Prerequisites: 9th grade

This is the same course as Health 1 (and does fulfill the graduation requirement) but is offered in a blended teaching model. For more information about the blended model of instruction, please [click here](#).

Covers attitudes and practices related to healthy living. Units include self-image, relationships human anatomy including reproduction, AIDS and other communicable diseases and community health. Taken in lieu of one semester of P.E. in the freshman year.

6061 **Advanced Health** **Semester** **0.5 Credits**

Prerequisites: 11th - 12th grade, successful completion of Health 1

Advanced Health is designed to provoke thought, knowledge, and understanding of global, cultural, community, family, and individual health. Students will participate in many discussions, self-reflections, outside activities, and projects that all facilitate positive individual growth. Some topics to be covered in class include, but are not limited to: mental and emotional health, death/dying/loss, alternative medicines, medical mysteries, men's and women's health issues, health careers, ethical dilemmas, cultural health issues, and heredity. The teacher, students, and current health issues will all have input on what is covered in class. Also included will be CPR, AED, and First Aid certification. **Note: Counts as elective credit, not credit towards state 4 year PE requirement.**

6070/6071 **Walking & Wellness** **Semester** **0.5 Credits**

Prerequisites: 10th - 12th grade

This is an outside walking program that will be outside unless there is lightning or the wind chill is below 0 with a variety of alternative activities being completed during inclement weather. Students will keep a daily log of required walking & wellness information and will complete a semester project. Each student will need proper attire for weather conditions.

Course may be repeated.

6080/6081 **Resistance Training 1** **Semester** **0.5 Credits**

Prerequisites: 10th - 12th grade

Foundations of weight training. The purpose of this course is to provide students with an opportunity to acquire basic knowledge and skills in weight training that may be used in physical fitness pursuits today as well as in later life, improve muscular strength and endurance, and enhance body image. Students will benefit from a comprehensive resistance training program/workout by the instructor. Students will also demonstrate proper spotting techniques for all lifts and exercises which require spotting. Evaluation of risk and safety factors that may affect participation in weight training and fitness throughout a lifetime is included.

6086/6088 **Resistance Training 2** **Semester** **0.5 Credits**

Prerequisites: 10th - 12th grade and successful completion of Resistance Training 1

Workout guidelines and development. Students will be given the opportunity to extend the acquisition of knowledge and development introduced in Resistance Training 1 that may be used in physical fitness pursuits today as well as in later life, further improve strength, endurance, and further enhance body image. Students will be given the opportunity to apply what they have learned by exploring how to create their own individual workouts. An emphasis will also be placed on safety and responsible behavior while weight training. Students will demonstrate proper spotting techniques for all lifts and exercises which require spotting. Evaluation of risk and safety factors that may affect participation in weight training and fitness throughout a lifetime is included.

6087/6089 Lifelong Fitness (Resistance Training 3) Semester 0.5 Credits

Prerequisites: 10th - 12th grade and successful completion of Resistance Training 1

Lifelong fitness. This course is designed for students to utilize Resistance Training 1 and 2 concepts, knowledge, and techniques into a combination of workouts pre-determined by instructors. Students will be given an opportunity to increase their knowledge base of weight training to be used in physical fitness pursuits today as well as later in life. An emphasis will be placed on safety and responsible behavior while weight training. Students will also demonstrate proper spotting techniques for all lifts and exercises which require spotting. Evaluation of risk and safety factors that may affect participation in weight training and fitness throughout a lifetime is included.

6082/6083 Individual Personal Training Semester 0.5 Credits

Prerequisites: 11th - 12th grade and successful completion of Resistance Training 1 and Resistance Training 2

This course is designed for students to create their own individual workout goals. Units include: Parts of a workout, types of workouts, and designing workouts to meet individual fitness goals. This course also gives students the opportunity to increase their knowledge of fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and designing their own workouts. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime. *Course may be repeated.*



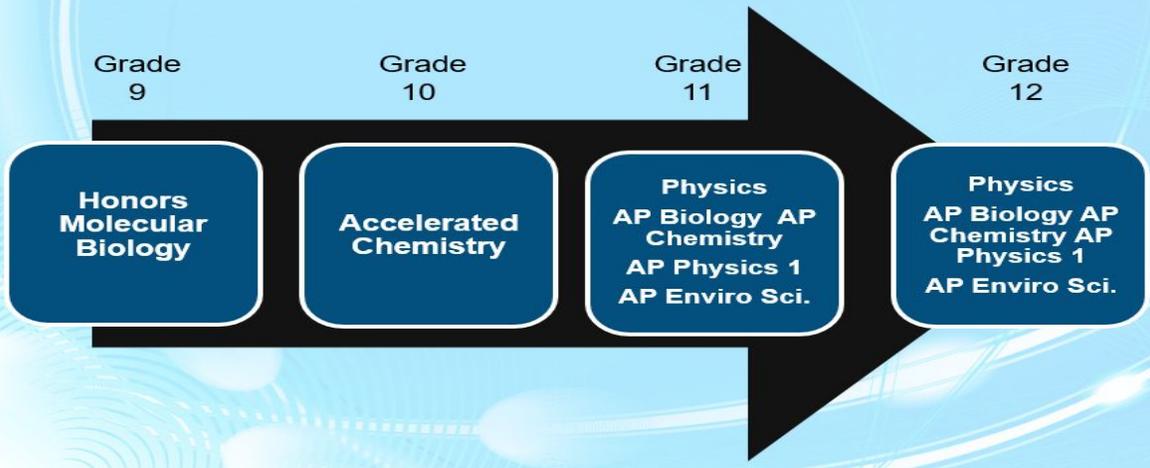
6050/6051 Driver's Education Semester 0.5 Credits

Prerequisites: 9th- 12th grade, 2.0 GPA (cumulative or previous semester) and 15 years of age prior to the first day of class.
Fee: \$250.00

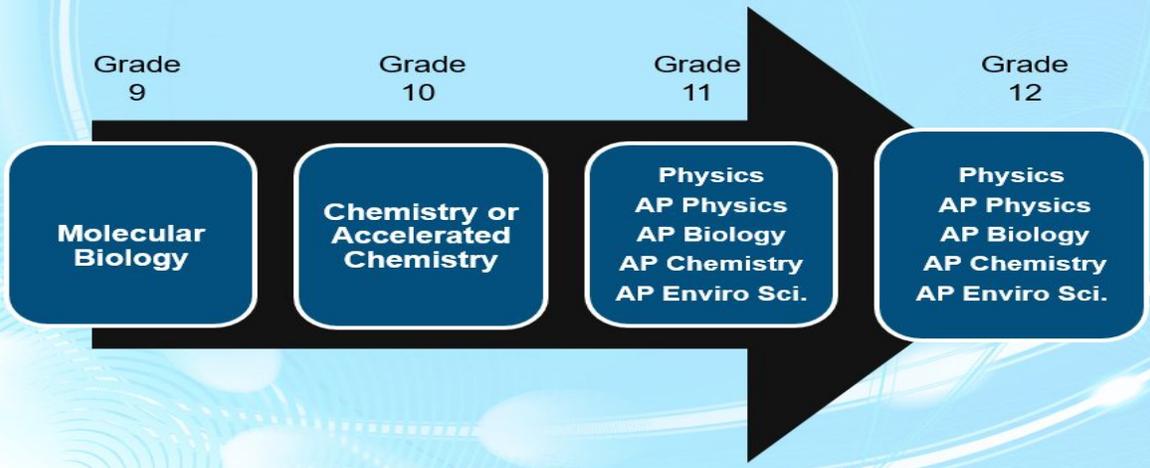
Prepares students to take the Illinois State Driver's Exam. Units include automobiles, maintenance, effects of alcohol and drugs on driver's reactions, city, highway, and expressway driving, Rules of the Road, safety, and maneuvers. **Note: Counts as elective credit, not credit towards state 4 year PE requirement.**

Science

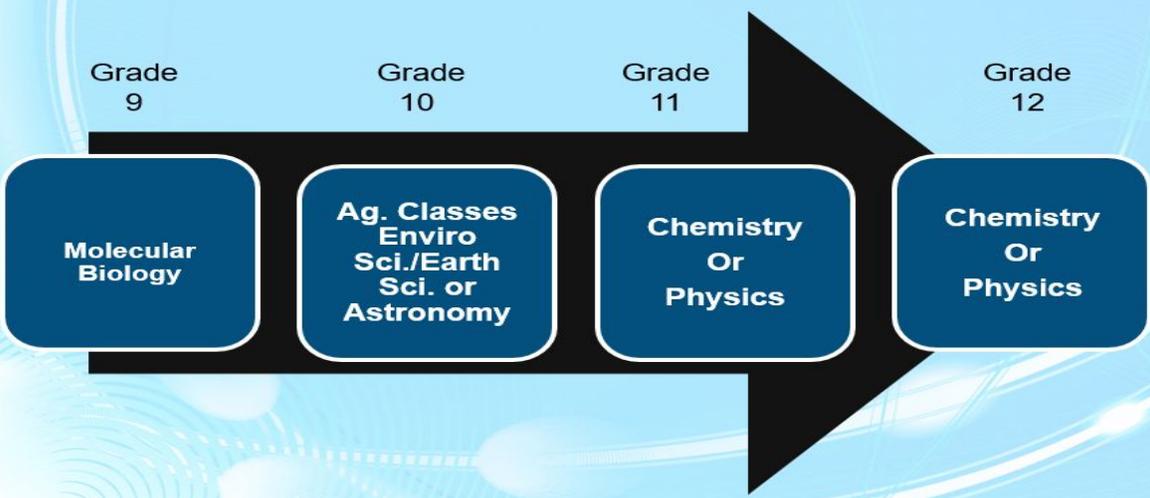
HONORS / AP COURSE FLOW



COLLEGE/CAREER COURSE FLOW



COLLEGE/CAREER COURSE FLOW



Science



7005 Earth Science Semester 0.5 Credits

Prerequisites: 9th - 12th grade

Earth Science is a semester long course which will provide students with an understanding of Earth's influence on you and your influence on the Earth. Students will understand the fundamental concepts of Earth's many systems, know how to find and assess scientifically credible information about Earth, communicate about Earth science in a meaningful way, and will be able to make informed and responsible decisions regarding Earth and its resources.

7015 Astronomy Semester 0.5 Credits

Prerequisites: 10th - 12th grade and successful completion of Algebra 1

Topics include the history of astronomy, the nature of light, telescopes, the solar system, stellar evolution, origin of the universe, and space exploration. Students will need to make some night observations.

7029 Environmental Science Semester 0.5 Credits

Prerequisites: 9th - 12th grade; Earth Science background is recommended

This is an interdisciplinary course, which provides students with the scientific principles and concepts necessary to understand the natural world, identify environmental problems, and examine alternative solutions. This course will explore the Earth by studying alternative energy, resource use, and management and sustainability.

7036/7037 AP Environmental Science Weighted Grade Year 1.0 Credit

Prerequisites: 11th - 12th grade and 2 years of a lab science

This course is designed to be the equivalent of a one-semester, introductory level college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental Science is interdisciplinary, embracing topics of geology, biology, environmental studies, environmental science, chemistry, and geography. **This is a lab science course.**

7021/7022 Honors Molecular Biology Weighted Grade Year 1.0 Credit

Prerequisites: 9th grade, test scores, and teacher recommendation

Fee: \$7.50 per semester

A study of life and life processes from a biochemical perspective. Topics of study include scientific inquiry, biochemistry, cell structure and function, energy, genetics, evolution, and ecology. This Honors/Pre-AP weighted class requires mastery and application of skills acquired throughout both semesters providing a comprehensive view of topics relevant to biological study today. This course places greater emphasis on reading of scientific research, scientific inquiry laboratory investigations, critical thinking and mathematical analysis of experimental data than Molecular Biology (Course 7025). Summer work will be required prior to taking this course. **This is a lab science course.**

7025/7026 Molecular Biology **Year** **1.0 Credit**

Prerequisites: 9th - 10th grade

Fee: \$7.50 per semester

A study of life and life processes from a biochemical perspective. Topics of study include scientific inquiry, biochemistry, cell structure and function, energy, genetics, evolution, and ecology. This introductory science course promotes mastery and application of skills acquired throughout both semesters providing a comprehensive view of topics relevant to biological study today. **This is a lab science course.**

7032/7033 AP Biology **Weighted Grade** **Year** **1.0 Credit**

Prerequisites: 11th - 12th grade and B or better in both Molecular Biology and Chemistry semester

Fee: \$7.50 per

This course is equivalent to an introductory freshman level college biology class. Emphasis is placed on reading comprehension, lab skills, critical thinking, logic, and the problem solving skills needed to pass the AP exam. Must maintain C or better in first semester. **This is a lab science course. This course requires summer work.**

7045/7046 Chemistry **Year** **1.0 Credit**

Prerequisites: 10th - 12th grade and C or better in both Molecular Biology and Algebra 1 or an A in both semesters of Biology and a C or better in both semesters of Algebra 1

Fee: \$7.50 per semester

Chemistry involves the study of atomic structure, the composition and properties of matter, and reactions of substances. Concepts such as chemical formulas and equations, chemical reactions (types, balancing, and stoichiometry), states of matter (including the Gas Laws), solutions, and acids and bases will be explored.. **This is a lab science course.**

7048BL/ Chemistry Blended **Year** **1.0 Credit**
7049BL

Prerequisites: 10th - 12th grade and C or better in both Molecular Biology and Algebra 1 or an A in both semesters of Biology and a C or better in both semesters of Algebra 1

Fee: \$7.50 per semester

This is the same course as Chemistry but is offered in a blended teaching model. For more information about the blended model of instruction, please [click here](#).

Chemistry involves the study of atomic structure, the composition and properties of matter, and reactions of substances. Concepts such as chemical formulas and equations, chemical reactions (types, balancing, and stoichiometry), states of matter (including the Gas Laws), solutions, and acids and bases will be explored.. **This is a lab science course.**

7042/7043 Accelerated Chemistry **Year** **1.0 Credit**

Prerequisites: 10th - 12th grade and B or better in both semesters of Molecular Bio and Alg 1 **Fee: \$7.50 per semester**

Same concepts as general chemistry but at a faster pace and with more in-depth discussion of topics. **This is a lab science course.**

7050/7051 AP Chemistry **Weighted Grade** **Year** **1.0 Credit**

Prerequisites: 11th - 12th grade and B or better in both semesters of Accelerated Chemistry or A or better in both semesters of Chemistry with necessary lab work to be done prior to the first day of class. **Fee: \$7.50 per semester**

Equivalent to an introductory freshman-level college chemistry class. Emphasis is placed on lab skills, critical thinking, logic, and problem solving skills needed to pass the AP exam. Must maintain C or better first semester. Topics include accelerated chemistry topics plus thermochemistry, equilibrium, kinetics, electrochemistry, various solution equilibrium, organic chemistry, and nuclear chemistry. **This is a lab science course. This course requires summer work.**

7060/7061 Physics **Year** **1.0 Credit**

Prerequisites: 11th - 12th grade and Algebra 2 or concurrent in Algebra 2

Fee: \$7.50 per semester

A study of the relationship between matter and energy. Topics include the study of motion, Newton's Laws, motion in two dimension, momentum, work, power, simple machines, energy, electricity, optics, sound, and modern topics such as

high energy physics. **This is a lab science course.**

7068/7069 AP Physics 1 Weighted Grade **Year** **1.0 Credit**

Prerequisites: 11th - 12th grade and Algebra 2 or concurrent in Algebra 2 **Fee: \$7.50 per semester**

This course is the 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; and mechanical waves and sound. It will also introduce electric circuits. **This is a lab science course. This course requires summer work.**

7065/7066 AP Physics 2 Weighted Grade **Year** **1.0 Credit**

Prerequisites: 12th grade and successful completion of AP Physics 1 **Fee: \$7.50 per semester**

This course is an algebra-based, introductory college-level physics course that explores 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. Through inquiry-based learning students will develop scientific critical thinking and reasoning skills. **This is a lab science course. This course requires summer work.**

Social Studies



Social Studies

8001/8003 Global Studies GRAD REQ **Year** **1.0 Credits**

Prerequisites: 9th grade

The primary objective of this course is to learn how people in different parts of the world live. Each unit will introduce a new region including Latin America, Europe, Russia, Asia, the Middle East, and Africa. Students will take a deeper look into that region's geography, history, and current events. They will study various aspects of the region's culture such as economy, government, and religion. This year long exploration will be done in a multitude of ways, such as: notes, discussion, readings, writings, self-exploration, kinesthetic activities, video and audio clips, power-points, etc.

8005/8006 AP Human Geography Weighted Grade **Year** **1.0 Credits**

Prerequisites: 9th grade, 8th grade teacher recommendation, and standardized test scores

The AP Human Geography course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. This fulfills the Global Studies graduation requirement.

8030/8031 United States History GRAD REQ **Year** **1.0 Credit**

Prerequisites: 10th grade

A survey of U.S. history from post World War I through contemporary times. The focus is on historical controversies that determined our history. Students do readings, research, and reports.

8030BL/ 8031BL United States History Blended FULFILLS GRAD REQ **Year** **1.0 Credit**

Prerequisites: 10th grade

This is the same course as United States History (and does fulfill the graduation requirement) but is offered in a blended teaching model. For more information about the blended model of instruction, please [click here](#).

A survey of U.S. history from post World War I through contemporary times. The focus is on historical controversies that determined our history. Students do readings, research, and reports.

8037/8038 AP United States History Weighted Grade **Year** **1.0 Credit**

Prerequisites: 10th grade and a B or better in Global Studies or a C or better in AP Human Geography/Honors Modern World

Designed to provide students with the analytic skills and factual knowledge necessary to deal critically with problems and materials in U.S. History. A survey of United States History from pre-colonization to present. Equivalent to demands made by full-year introductory college course. **Fulfills the US History graduation requirement. Summer Work is required.**

8035 United States Historical Perspectives in Cinema Semester 0.5 Credits

Prerequisites: 11th - 12th grade and successful completion of United States History

A chronological journey of history through the use of cinema, in which students will analyze the historical accuracy and significance of the topics covered. Each movie will include a portfolio project or test and a written movie review. A fair amount of writing will be required for this class. Some of the movies covered: The Patriot (American Revolution), Dances With Wolves (Closing of the Frontier), Cinderella Man (the Great Depression), Thirteen Days (Cuban Missile Crisis), Black Hawk Down (Modern Warfare), The Insider (Legal Action vs. the tobacco industry), and World Trade Center (Sept. 11th).

8036 World Historical Perspectives in Cinema Semester 0.5 Credits

Prerequisites: 11th - 12th grade and successful completion of United States History

A chronological journey of history through the use of cinema, in which students will analyze the historical accuracy and significance of the topics covered. Each movie will include a portfolio project or test and a written movie review. A fair amount of writing will be required for this class. Some of the movies covered: 10,000 B.C. (early civilizations), Gladiator (Rome), Kingdom of Heaven (Crusades), Braveheart (Britain), 1492 (Exploration), The Last Samurai (Japan), Hotel Rwanda (Africa), and Slumdog Millionaire (India).

8040 American Government GRAD REQ Semester 0.5 Credits

Prerequisites: 11th - 12th grade

Analyze government and political processes. America's system of interrelationships among national, state, and local levels are investigated. Students take the U.S. and Illinois Constitution Exams.

8041BL American Government Blended Semester 0.5 Credits

Prerequisites: 11th - 12th grade

This is the same course as American Government (and does fulfill the graduation requirement) but is offered in a blended teaching model. For more information about the blended model of instruction, please [click here](#).

Analyze government and political processes. America's system of interrelationships among national, state, and local levels are investigated. Students take the U.S. and Illinois Constitution Exams.

8042 AP US Government & Politics Weighted Grade Semester 0.5 Credits

Prerequisites: 11th - 12th grade and B or better in United States History or C or better in AP United States History

Students will analyze and interpret the government and political processes of the United States using theoretical perspectives. Equivalent to demands made by an introductory college course. **Fulfills the American Government graduation requirement.**

8045 Sociology Semester 0.5 Credits

Prerequisites: 11th - 12th grade and C or better in United States History or instructor recommendation; 10th grade with instructor approval

This course focuses on human interrelationships, analysis of culture and social problems, leadership in American society, effects of poverty, formation of stereotypes, and social mobility are considered. Also includes Exploration of Gangs in America unit.

8050 Psychology Semester 0.5 Credits

Prerequisites: 11th - 12th grade and C or better in United States History or instructor recommendation; 10th grade with instructor approval

Includes current trends and careers, especially sleep and dream analysis, motivation and emotions, theories of personality, psychological disorders, and treatments.

8050BL Psychology Blended Semester 0.5 Credits

Prerequisites: 11th - 12th grade and C or better in United States History or instructor recommendation; 10th grade with instructor approval

This is the same course as Psychology but is offered in a blended teaching model. For more information about the blended model of instruction, please [click here](#).

Includes current trends and careers, especially sleep and dream analysis, motivation and emotions, theories of personality, psychological disorders, and treatments.

8051 Psychology 2 Semester 0.5 Credits

Prerequisites: 11th - 12th grade and a B or better in Psychology or instructor recommendation

Includes the areas of Biology & Behavior, Sensation & Perception, Learning, Memory, Thinking & Language, Intelligence, Psychological Tests, and Sports Psychology.

8070/8071 AP Psychology Weighted Grade Year 1.0 Credit

Prerequisites: 11th - 12th grade and a B or better in both semesters of United States History or C or better in AP US History

The purpose of the course is to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included will be a study of the major subfields of psychology: Body and Behavior, Altered States of Consciousness, Sensation and Perception, Learning, Memory, Thinking, Motivation, Personality, and Psychological Disorders. Students also learn about the ethics and methods psychologists use in their science and practice.

8055 Sociological Dynamics of the Individual Family Semester 0.5 Credits

Prerequisites: 11th - 12th grade

Designed to assist individuals in achieving life satisfaction through responsible participation as adults in the home and community. Emphasizes realistic expectations of marriage, parenting, and family life, etc.

8065 Economics Semester 0.5 Credits

Prerequisites: 11th - 12th grade

Covers resources, the factors of production, the roles of competition, business and government, supply and demand, comparative economic systems, and the role of the consumer in the U.S. economy. **Fulfills the Consumer Education graduation requirement.**

8080 American Judicial System (Criminal Law) Semester 0.5 Credits

Prerequisites: 11th - 12th grade

Students examine crime, the structure and applications of criminal law and the judicial system. Study Supreme Court cases on search and seizure, Miranda, jury trial, and others. Students will participate in a mock trial.