

**COLLINSVILLE HIGH SCHOOL
GENERAL COURSE OFFERING GUIDE**

2021-2022



**HOME OF THE
“KAHOKS”**

**“LEARNING IS A TREASURE THAT WILL
FOLLOW ITS OWNER EVERYWHERE”**

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2021-2022 COURSE OFFERING GUIDE

GENERAL INFORMATION

COUNSELING DEPARTMENT: Mr. TaRael Kee, *Counselor A-C* (x1135) and Ms. Karen Olsen, *Counselor Mi-R* (x1132) Co-Department Chairs; Ms. Renee Kurtz, *Counselor D-He* (x1033); Ms. Melissa Biebel, *Counselor Hi-Me* (x1139); Mr. Jason Corey, *Counselor S-Z* (x1131); Ms. Carla Elliff, *Kahok Academy Instructor/Running Start Counselor*; and Mr. Robert Lugge, *IEP Coordinator* (x1150).

HIGH SCHOOL ADMINISTRATION: Mr. David Snider, *Principal*; Ms. Charlotte Fisher, *Assistant Principal*; Mr. Darin Lee, *Assistant Principal*; Mr. Joseph McGinnis, *Assistant Principal/Vocational Director*; Dr. Tesha Robinson, *Assistant Principal*; Mr. Clay Smith, *Assistant Principal/Athletic Director*; and Mr. Daniel Toberman, *Assistant Principal*.

ADMINISTRATION: Dr. Mark B. Skertich, *Superintendent*; Ms. Latoya Coleman, *Director of Curriculum and Instruction*; Mr. Kevin Robinson, *Director of Human Resources*; Mr. Brad Hyre, *Assistant Superintendent and Director of Student Services*; Ms. Ali Underwood, *Director of Special Education and Related Services*; Ms. Uta Robison, *Chief School Business Official*; Mr. Derek Turner, *Technology Coordinator*; and Mr. Josh DeWitte, *Director of Buildings and Grounds*.

BOARD OF EDUCATION: Mr. Gary Peccola, *President*; Mr. Gary Kusmierczak, *Vice President*; Dr. Dennis Craft, *Treasurer*; Ms. Jane Soehlke, *Secretary*; Mr. Tim Hasamear, Ms. Vicki Reulecke and Ms. Michelle Stutts.

PLAN COURSE SELECTIONS CAREFULLY

This booklet has been prepared by the CHS Curriculum Council to help you with the selection of classes for the 2020-2021 school year. The purpose of this booklet is to provide information about the course offerings at Collinsville High School and to improve communication among parents, students, and counselors. It is specifically designed to help each student plan his/her course of study. Students and their parents are encouraged to read the various course descriptions and, in consultation with their counselors and teachers, select courses that best serve their specific interests and needs. Courses selected should help a student reach his/her educational goals. The suggestions below are included so that a student can successfully use this guide:

- **Plan early.** If you alter your educational goals, changes can be made in your program.
- **Make decisions carefully** in light of personal objectives and future goals.
- **Study the course descriptions** and pay particular attention to prerequisites.
- **Study the graduation requirements.**
- **Keep in mind** the requirements for post-secondary opportunities as you plan your program of studies.

COLLINSVILLE HIGH SCHOOL

2201 S. Morrison

Collinsville, IL 62234

618-346-6320

Collinsville High School - Course Offerings

BUSINESS

- Accounting I (10206G)
- Accounting II (10306G)
- Advanced Video Production (10302G)
- CEO-Entrepreneurship (10402G)
- *Computer Apps (10101G)
- *Computer Programming (10205G)
- Consumer Education (10110G)
- *Consumer Education 10-12 (1011BG)
- *Cyber Security/Software and Apps for Tomorrow (10201G)
- *Exploring Careers (10103G)
- *Fashion Marketing (10207G)
- Interrelated Co-Op (10401G)
- *Introduction to Web Page Design (10203G)
- *Keyboarding (10100G)
- *Personal Finance (10301G)
- *Photoshop (10104G)
- *Small Business Basics (10102G)
- *Social Media & Digital Advertising (10204G)
- *Sports and Entertainment Marketing (10208G)
- Video Production (10202G)

ENGLISH

- *British Literature (01303G)
- *College English (01402E)
- *Contemporary Fiction (01309G)
- *Creative Writing (01306G)
- English I (01101G)
- English I – Honors (01101A)
- English II (01201G)
- English II – Honors (01201A)
- English III (01301G)
- English Lang & Comp III - AP (01301A)
- English Lit & Comp IV - AP (01401A)
- *Gothic & Horror Literature (01302G)
- *Journalism (01308G)
- *Mythology (01310G)
- *Nonfiction (01304G)
- *Public Speaking (01403E)
- Reading & Writing Basics (01100R)
- *Science Fiction Literature (01305G)
- *Senior Composition (01402G)
- *Women and Literature (01307G)

FAMILY AND CONSUMER SCIENCES

- *Adulting 101 (07301G)
- *Child Development (07101G)
- *Foods & Nutrition I (07102G) **Fee: \$50**
- *Foods & Nutrition II (07103G) **Fee: \$50**
- *Health Occupations I (07105G)
- *Health Occupations II (07106G)
- *Intro to Criminal Justice (07104G)
- *Medical Terminology (07201G)

FINE ARTS

- *Art (05131G)
- *Cartooning (05132G)
- *Ceramics (05133G)
- Choir, Bass (05121G)
- Choir, Concert (05120G)
- Choir, Treble (05122G)
- *Color Guard (05115G)
- *Crafts (05134G)
- Drawing (05137G)
- *Illustration (05130G)
- *Marching Band (05114G)
- Music Appreciation (05101G)
- Music Theory - AP (05110A)
- Painting (05138G)
- Percussion Class (05111G)
- *Photography (05136G) **Fee: \$45**
- Piano Class I (05151G)

- Piano Class II (05152G)
- *Printmaking (05140G)
- *Sculpture (05139G)
- Studio Art - AP (05131A)
- *Symphonic Band (05112G)
- Theater (05161G)
- *Wind Ensemble (051132)

WORLD LANGUAGE

- French I (06110G)
- French II (06210G)
- French III - Enriched (06310E)
- French IV - Enriched (06410E)
- French V - Enriched (06510E)
- German I (06120G)
- German II (06220G)
- German III - Enriched (06320E)
- German IV - Enriched (06420E)
- German V - Enriched (06520E)
- Latin I (06130G)
- Latin II (06230G)
- Intermediate Latin Poetry - Enriched (06330E)
- Intermediate Latin Prose - Enriched (06430E)
- Latin V Independent Study - Enriched (06530E)
- Spanish I (06140G)
- Spanish II (06141G)
- Spanish II for Heritage Speakers (06141H)
- Spanish III - Enriched (06340E)
- Spanish IV - Enriched (06440E)
- Spanish V - Enriched (06540E)

INDUSTRIAL/TECH EDUCATION

- Aerospace Engineering (09301G)
- Engineering Design & Development (09401G)
- Exploring Metals (09203G)
- *Introduction to Electricity (09102G)
- Introduction to Engineering Design (09106G)
- *Introduction to Metals (09103G)
- *Introduction to Robotics (09202G)
- *Introduction to Welding (09104G)
- *Introduction to Woods (09105G)
- Principles of Engineering (09107G)
- *Robotics (09204G)
- Woods I (09205G)
- Woods II (09206G)

MATH

- Algebra I - Paced (02101G)
- Algebra Trailer (02109G)
- Algebra I (02102G)
- Algebra II (02203G)
- Algebra II - Honors (02203A)
- Algebraic Concepts (02303G)
- AP Calculus BC (02406A)
- Calculus (02406G)
- Computer Science I (02407E)
- *Discrete Math (02404G)
- *Elementary Statistics (02403G)
- Financial Algebra (02401G)
- Geometry with Mathematical Models (02301G)
- Geometry (02202G)
- Geometry - Honors (02103A)
- Math 4 - STEM (02408G)
- Pre-Calculus with Trig (02302G)
- Honors-Trig/Calculus A (02302A)
- Statistics - AP (02405A)

PHYSICAL EDUCATION/HEALTH

- *Aerobic Fitness (08104G)
- Athletic PE (08102G)
- *Athletic PE (0810BG)
- *Color Guard (05115G)
- Driver's Education (08103G) **Fee: \$250**

- *Health (08201G)
- *Marching Band (05114G)
- Physical Education (08101G)
- *Physical Education (0810AG)
- *Wellness Physical Education (08105G)

SCIENCE

- Anatomy & Physiology (03309G)
- *Astronomy (03301G)
- Biology I (03102G)
- Biology I – Honors (03102A)
- Biology II (03304G)
- Biology II - AP (03304A)
- Chemistry I (03201G)
- Chemistry I Honors (03201A)
- Chemistry II (03303G)
- Chemistry II - AP (03305A)
- Environmental Science (03103G)
- Forensic Science (03306G)
- *Geology (03302G)
- Physical Science (03101G)
- Physics C - AP (03309A)
- Physics I (03308G)
- Physics I - AP (03308A)
- Physics II - AP (03307A)

SOCIAL STUDIES

- *Current Events (04201G)
- *Economics (04302G)
- *Government (04101G)
- *International Governments (04204G)
- Leadership 101 (04305G)
- *Psychology (04303G)
- Psychology - AP (04303A)
- *Sociology (04304G)
- US Government and Politics - AP (04401A)
- United States History (04301G)
- United States History - Enriched (04301E)
- United States History - AP (04301A)
- World Geography (04202G)
- World Geography - Enriched (04202E)
- World History (04203G)
- World History - Enriched (04203E)

VOCATIONAL/CAVC

- Auto Body I (09306V)
- Auto Body II (09406V)
- Auto Mech. Tech. I (09307V)
- Auto Mech Tech. II (09407V)
- Building Trades I (09310V)
- Building Trades II (09410V)
- Clinical Health Occupations (07305V)
- Cosmetology I (07303V)
- Cosmetology II (07403V)
- Criminal Justice I (07302V)
- Criminal Justice II (07402V)
- Cyber Security (10303V)
- Early Childhood Education (07401V)
- Electronics I (09302V)
- Electronics II (09402V)
- Food Service I (07307V)
- Food Service II (07407V)
- Intro to Early Childhood Education (07301V)
- Precision Machining Technology I (09308V)
- Precision Machining Technology II (09408V)
- Web and Graphics Design (10302V)
- Welding Technology I (09304V)
- Welding Technology II (09404V)

Note: * Semester Courses
● Quarter Courses

FRESHMAN COURSES

BUSINESS

- *Computer Apps (10101G)
- Consumer Education (10110G)
- *Exploring Careers (10103G)
- *Keyboarding (10100G)
- *Photoshop (10104G)

ENGLISH

- English I (01101G)
- English I –Honors (01101A)

FAMILY AND CONSUMER SCIENCES

- *Child Development (07101G)
- *Foods & Nutrition I (07102G) **Fee: \$50**
- *Foods & Nutrition II (07103G) **Fee: \$50**
- *Health Occupations I (07105G)
- *Health Occupations II (07106G)
- *Intro to Criminal Justice (07104G)

FINE ARTS

- *Art (05131G)
- *Cartooning (05132G)
- *Ceramics (05133G)
 - Choir, Bass (05121G)
 - Choir, Concert (05120G)
 - Choir, Treble (05122G)
- *Color Guard (05115G)
- *Concert Band (05113G)
- *Crafts (05134G)
- *Illustration (05130G)
- *Marching Band (05114G)
 - Music Appreciation (05101G)
 - Percussion Class (05111G)
 - Piano Class I (05151G)
- *Printmaking (05140G)
- *Sculpture (05139G)
- Symphonic Band (05112G)
- Theater (05161G)
- Wind Ensemble (051132)

WORLD LANGUAGE

- French I (06110G)
- German I (06120G)
- Latin I (06130G)
- Spanish I (06140G)
- Spanish II for Heritage Speakers (06141G)

MATH

- Algebra I (02102G)
- Algebra I Paced (02101G)
- Geometry –Honors (02103A)

PHYSICAL EDUCATION

- *Aerobic Fitness (08104G)
 - Athletic PE (08102G)
- *Color Guard (05115G)
- Drivers Education (08103G) **Fee: \$250**
- *Marching Band (05114G)
 - Physical Education (08101G)
- *Wellness Physical Education (08105G)

SCIENCE

- Biology I (03102G)
- Biology I – Honors (03102A)
- Physical Science (03101G)

INDUSTRIAL/TECH EDUCATION

- Exploring Metals (09203G)
- *Introduction to Electricity (09102G)
 - Introduction to Engineering Design (09106G)
- *Introduction to Metals (09103G)
- *Introduction to Robotics (09202G)
- *Introduction to Welding (09104G)
- *Introduction to Woods (09105G)
- *Robotics (09204G)

SOPHOMORE COURSES

**May take any Freshman Courses as well

BUSINESS

- Accounting I (10206G)
- *Computer Programming (10205G)
- *Consumer Education 10-12 (1011BG)
- *Cyber Security/Software and Apps for Tomorrow (10201G)
- *Exploring Careers (10103G)
- *Fashion Marketing (10207G)
- *Introduction to Web Page Design (10203G)
- *Social Media & Digital Advertising (10204G)
- *Software and Apps for Tomorrow (10201G)
- *Sports Entertainment Marketing (10208G)
 - Video Production (10202G)

ENGLISH

- English II (01201G)
- English II – Honors (01201A)

FAMILY AND CONSUMER SCIENCES

- *Adulting 101 (07301G)
- *Child Development (07101G)
- *Foods & Nutrition I (07102G) **Fee: \$50**
- *Foods & Nutrition II (07103G) **Fee: \$50**
- *Health Occupations I (07105G)
- *Health Occupations II (07106G)
- *Intro to Criminal Justice (07104G)
- *Medical Terminology (07201G)

FINE ARTS

- *Art (05131G)
- *Cartooning (05132G)
- *Ceramics (05133G)
 - Choir, Bass (05121G)
 - Choir, Concert (05120G)
 - Choir, Treble (05122G)
- *Color Guard (05115G)
- *Crafts (05134G)
 - Drawing (05137G)
- *Illustration (05130G)
- *Marching Band (05114G)
 - Music Appreciation (05101G)
 - Painting (05138G)
 - Percussion (05111G)
 - Piano Class I (05151G)
 - Piano Class II (05152G)
- *Printmaking (05140G)
- *Sculpture (05139G)
 - Symphonic Band (05112G)
- Theater (05161G)
- Wind Ensemble (051132)

WORLD LANGUAGE

- French I (06110G)
- French II (06210G)
- German I (06120G)
- German II (06220G)
- Latin I (06130G)
- Latin II (06230G)
- Spanish I (06140G)
- Spanish II (06141G)
- Spanish II for Heritage Speakers (06141H)

MATH

- Algebra Trailer (02109G)
- Algebra II (02203G)
- Algebra II –Honors (02203A)
- Algebraic Concepts (02303G)
- Geometry (02202G)
- Geometry with Mathematical Models (02301G)

PHYSICAL EDUCATION

- *Aerobic Fitness (08104G)
- *Athletic Physical Education (0810BG)
- *Color Guard (05115G)
- *Health (08201G)
- *Marching Band (05114G)
- *Physical Education (0810AG)
- *Wellness Physical Education (08105G)

SCIENCE

- Biology I (03102G)
- Chemistry I (03201G)
- Chemistry I –Honors (03201A)
- Physical Science (03101G)

SOCIAL STUDIES

- *Current Events (04201G)
- *Government (04101G)
- *International Governments (04204G)
 - World Geography (04202G)
 - World Geography – Enriched (04202E)
 - World History (04203G)
 - World History – Enriched (04203E)

INDUSTRIAL/TECH EDUCATION

- Exploring Metals (09203G)
- *Introduction to Electricity (09102G)
 - Introduction to Engineering Design (09106G)
- *Introduction to Metals (09103G)
- *Introduction to Robotics (09202G)
- *Introduction to Welding (09104G)
- *Introduction to Woods (09105G)
 - Principles of Engineering (09107G)
- *Robotics (09204G)
 - Woods I (09205G)

Note: * Semester Courses
● Quarter Courses

CLASSIFICATION OF STUDENTS

Freshman: During the freshman year students with a normal class load may earn 6.0 credits.

Sophomore: Students with fewer than 5.0 credits are considered Freshmen.

Junior: Students with fewer than 10.0 credits are considered Sophomores.

Senior: To be classified as seniors, students must have attended high school for six semesters. If needed, a senior may earn up to one additional credit through correspondence courses. Students with fewer than 15.0 credits are considered Juniors. **Students who have not earned credits in all of the required course work, passed exams on the United States Constitution and Illinois Constitution, met requirements for annual state assessments and accumulated a total of at least 22.0 credits will not be graduated.** They will not be allowed to participate in graduation ceremonies until any and all deficiencies are removed.

Students who are deficient in credits should make plans to rectify this deficiency.

CLASS LOAD AND SCHOOL YEAR

All students must select six classes per semester. During the school year, students may earn 6.0 credits. The school year consists of two semesters, a total of 36 weeks per year. The school calendar is set by the Board of Education each year.

ACCREDITATION

The Illinois State Board of Education and the North Central Association of Colleges and Secondary Schools accredit Collinsville High School.

FEES

The Collinsville School District establishes fees and charges to fund certain school materials and activities. All students are charged instructional materials and technology usage fees. Fees are subject to change at the beginning of each new school year. Detailed fee information will be available during the registration process. Individual fees for classes are listed in their course description.

REQUIRED COURSES

There is no limitation on the maximum number of units of credits a student can earn, but the following courses are required and must be successfully completed: Required courses are subject to change.

CHS Graduation Requirements:

English (4 credits) 1 writing intensive course

Mathematics (3 credits) including 1 credit of Geometry, 1 credit of Algebra and enrollment in math for three full consecutive academic years.

Science (2 credits) 1 credit in the life sciences and 1 credit in the physical sciences

Social Studies (2 1/2 credits) including 1/2 credit in Government, 1 credit in United States History, and 1 credit in World History or World Geography.

Physical Education (4 credits) 1 credit per year of Physical Education (including 1/2 credit in Health). Exceptions contingent upon Illinois School Code.

Consumer Education (1/4 credit)

Computer Applications (1/2 credit)

Art/Music/ World Language/Vocational (1 credit) any single or combination of classes

For students planning on attending a 4-yr University, these are typical minimum entrance requirements:

English – 4 years

Math – 3-4 years

Science – 3 years

Social Studies – 3 years

World Language/Fine Arts – 2 years

GRADING SYSTEM – CREDITS

LETTER GRADE	AP/Honors & DUAL CREDIT GRADE POINTS	ENRICHED GRADE POINTS	REGULAR GRADE POINTS	NUMERICAL SCORES
A	5.0	4.5	4.0	100 – 90
B	4.0	3.5	3.0	89-80
C	3.0	2.5	2.0	79-70
D	1.0	1.0	1.0	69-60
F	0	0	0	BELOW 59
W	(Withdrawal)			
X	(Medical)			

If a class is dropped after the fifth week of a semester, the grade for that semester will be an F. All extended deadline work (relating to homebound and other such documented situations) must be submitted within 5 weeks after the end of the grading period. If not, the final grade will be permanently recorded as an F.

An *AP* or *Honors* designates Advanced Placement courses or Honors courses, as honors courses. As an honors course, students complete summer packets and portfolios. If a student drops an Honors/AP course at the semester, they will not be allowed to take another Honors/AP course in the same department the next year.

One-half (1/2) Credit per semester is awarded for each course satisfactorily completed, except:

RANK IN CLASS

Rank in class is computed at the end of each semester using the grade point average of all students within a class. Computation of grade point average is calculated from grades of all credited courses excluding Driver's Education.

TERMINOLOGY/SYMBOLS

ISCC is the course number in the Illinois State Board of Education Secondary Course Catalog.

Advanced Placement (AP) courses have been approved by the College Board. These courses meet clear guidelines on curricular and resource requirements expected for a college level course in that subject area. With qualifying AP Exam scores (during junior and/or senior year), students *may* earn credit at many colleges and universities. Individual colleges/universities grant course credit and placement. You can usually find this information on the college/university website or at www.collegeboard.org/apcreditpolicy.

NCAA

Courses with this symbol denote an NCAA approved core credit course.



Courses with this symbol are dual credit approved courses through Southwestern Illinois College. Students must pass the Accuplacer test to be enrolled in the course for dual credit.



Courses with this symbol are dual credit approved courses through Saint Louis University.

COLLINSVILLE HIGH SCHOOL 4 YEAR PLAN

If you are planning on attending a four-year university or college, use this template as a guide to meet the typical minimum entrance requirements.

University Pathway

	Semester 1	Semester 2
F R E S H M A N	English:	English:
	Math:	Math:
	Science:	Science:
	PE:	PE:
	Computer Applications:	Cons. Ed/Dr. Ed.:
	(World Language, Music or Art):	(World Language, Music or Art):
S O P H O M O R E	English:	English:
	Math:	Math:
	Science:	Science:
	PE: (Dr. Ed if needed)	PE:
	Health:	Government:
	Elective:	Elective:
J U N I O R	English:	English:
	Math:	Math:
	U.S. History:	U.S. History:
	Science:	Science:
	PE:	PE:
	Elective:	Elective:
S E N I O R	English:	English:
	World History or Geography:	World History or Geography:
	Math:	Math:
	PE:	PE:
	Social Studies:	Elective:
	Elective:	Elective:

COLLINSVILLE HIGH SCHOOL 4 YEAR PLAN

If you are planning on attending a technical college or directly entering the work force, use this template as a guide to meet the typical minimum entrance requirements.

Career Pathway

	Semester 1	Semester 2
F R E S H M A N	English:	English:
	Math:	Math:
	Science:	Science:
	PE:	PE:
	Computer Applications:	Cons. Ed/Dr. Ed.:
	Elective:	Elective:
S O P H O M O R E	English:	English:
	Math:	Math:
	Science:	Science:
	PE: (Dr. Ed if needed)	PE:
	Health:	Government:
	Elective:	Elective:
J U N I O R	English:	English:
	Math:	Math:
	U.S. History:	U.S. History:
	Science:	Science:
	PE:	PE:
	(Art, Music, World Language or Vocational):	(Art, Music, World Language or Vocational):
S E N I O R	English:	English:
	World History or Geography:	World History or Geography:
	PE:	PE:
	Elective:	Elective:
	Elective:	Elective:
	Elective:	Elective:

Business Department

9 th Grade	10 th Grade	11 th Grade	12 th Grade
*Computer Apps *Consumer Education *Exploring Careers *Keyboarding *Photoshop	All Prior Plus: Accounting I *Computer Programming *Cyber Security/Software and Apps *Social Media & Digital Advertising *Fashion Marketing *Introduction to Web Design *Sports & Entertainment Marketing Video Production	All Prior Plus: Accounting II Advanced Video Production *Personal Finance *Small Business Basics	All Prior Plus: CEO-Entrepreneurship Interrelated Co-op

Accounting I (1/2 Credit per semester)

ISCC: 10206G/12104A001/B301-B302

PREREQUISITE(S): None

The importance of accounting cannot be understated in our personal and business lives. It provides us with a systematic way of keeping track of expenses and income. Accounting I is a course assists students pursuing a career in business, marketing, and management. This course includes planned 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 should be integrated throughout the course where applicable. In addition to stressing basic fundamentals and terminology of accounting, instruction should provide initial understanding of the preparation of budgets and financial reports, operation of related business machines and equipment, and career opportunities in the accounting field. Processing employee benefits may also be included. **Taking accounting will be a real asset to your future.** This preparation level course is of value to all students pursuing a strong background in business, marketing and/or management.

Accounting II (1/2 Credit per semester)

ISCC: 10306G/12104A002/B303-B304

PREREQUISITE(S): Accounting I

Accounting II is a course that builds upon the foundation established in Accounting I. 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. Students may become familiar with such specialized fields of accounting as cost accounting, tax accounting, payroll accounting, and others. Some students may choose to do specialized accounting computer applications, and others may elect payroll clerk, data processing computer applications. Simulated business conditions may be provided through the use of practice sets. Skills are developed in the entry, retrieval, and statistical analysis of business data using computers for accounting business applications.

Advanced Video Production (1/2 Credit per semester)

ISCC: 10302G/10201A001/B326-B327

PREREQUISITE(S): Video Production

Students are a member of Tomahawk Studios and will produce shows which are aired to the student body. This course is for students who have successfully completed Video Production. Students will use multiple Apple software applications to edit video. In addition to expanding on the activities explored in the first course, students work in a team-based environment to create a variety of video broadcasts. Instruction includes single and multi-camera operations, pre-production, production and post-production processes, teleprompter usage, audio editing and special effects. Students will complete projects for the class including Kahok Talk as well as projects for the district. This course is one of many that cover aspects of Web Page and Interactive Media Development 2 content. This is a skill-level course for students who have completed Web Page and Interactive Media Development I. Instruction will include using multimedia authoring applications and programming tools such as JavaScript to create a web site that combines text, hyperlinks, images, video, and sound. Instruction will include using hardware and software to capture, edit, create, and compress audio and video clips as well as create animated text, graphics, and images. Other topics will include using tables to align images with text, creating newspaper-style columns, and inserting side menus and call-outs. Students will learn how to use templates, cascading style sheets and interactive elements to enhance web pages. Students will learn to create dynamic forms, including multiple-choice questions, comment boxes, and buttons. Students will learn how to connect to a database and retrieve and write data. Students are encouraged to develop a portfolio project that demonstrates their expertise in areas such as multimedia authoring, web development, audio and video editing, and advanced JavaScript applications to create interactive web pages.

CEO - Entrepreneurship (1 Credit per semester)

ISCC: 10402G/12053A001

PREREQUISITE(S): Senior status, application and acceptance

Students will learn the process of entrepreneurship through the curriculum which includes visits to many area businesses. Students will develop the skills to write two or three business plans to present to local business investors. Students will be required to start a business and showcase it to the community. Students will develop skills for problem solving, critical thinking, communication, collaboration, flexibility, adaptability, creativity and innovation. The class meets in local businesses and changes locations throughout the year with 30-40 guest speakers. This helps the students establish a greater appreciation for their areas professional work environments. The CEO class meets for 90 minutes and starts before the standard school day (7:00 am to 8:30 am). Because the class meets off campus, students must be able to provide their own transportation.

Computer Apps (1/2 Credit)

ISCC: 10101G/10004A01/B107

PREREQUISITE(S): None



This is an orientation-level course designed to develop awareness and understanding of application software and equipment used by employees to perform tasks in business, marketing and management. Students will apply problem-solving skills to hands-on, real-life situations using a variety of software applications, such as word processing, spreadsheets, database management, presentation software, and desktop publishing. Students will explore topics related to computer concepts, operating systems, telecommunications and emerging technologies. The development of employability skills, as well as transition skills, will be included in the course as well as an understanding of the ethical considerations that arise in using information processing equipment and gaining access to available databases. This course is Dual-Credit with SWIC-OAT 130 and OAT 132.

Computer Programming (1/2 Credit)

ISCC: 10205G/10152A001/B354-B355

PREREQUISITE(S): None

The introduction to computer science curriculum teaches the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem-solving skills. Once students complete the course, they will have learned material equivalent to a semester college introductory course in Computer Science and be able to program in JavaScript. Students learn the fundamentals of programming with an emphasis on problem solving and logical thinking. This course is Dual-Credit with SWIC - OAT 130 and OAT 132

Consumer Education (1/4 or 1/2 Credit)

ISCC: 10110G/22210A000

PREREQUISITE(S): None

This course is designed to help students become better consumers both now and in their future as adults. Topics covered include: The economy, technology products, consumer rights and responsibilities, careers, taxes, budgeting, banking, savings, investing, credit, transportation, housing, auto and home insurance, health and life insurance, services and the global economy. This course fulfills the consumer education requirement. Freshman/Sophomores enrolled for a 9-week session, partnered with Dr. Ed. Others will take this course for a full semester.

Cyber Security/ Software and Apps for Tomorrow (1/2 Credit)

ISCC: 10201G/10005A001/B359

PREREQUISITE(S): "C" or better grade in Computer Apps

This course will provide an overview of cybersecurity including the importance of cybersecurity, the characteristics and operation of malware, and options for defense against cyber threats. Students will also explore why cybersecurity is important in various industries. The course will introduce information security, systems security, network security, mobile security, and physical security. The course will discuss the characteristics and tactics of cyber criminals and explore the technologies, products, and procedures used by cybersecurity professionals to combat cybercrime. The course offers students the opportunity to work with advanced software features. This is a skill-level course that includes the concepts and terminology related to the people, equipment, and procedures of information processing as well as skill development in the use of information processing equipment. Students will operate computer equipment to prepare memos, letters, reports, and forms. Students will create rough drafts, correct copy, process incoming and outgoing telephone calls and mail, and transmit and receive messages electronically. Students will create, input, and update databases and spreadsheets. Students will create data directories; copy, rename, move, and delete files, and perform backup procedures. In addition, students will

prepare files to merge, as well as create mailing labels and envelopes from merge files. Students will learn to locate and retrieve information from hard copy and electronic sources, and prepare masters for presentations using presentation software. Students will apply proper grammar, punctuation, spelling and proofreading practices. Accuracy will be emphasized. Workplace skills as well as communication skills (thinking, listening, composing, revising, editing, and speaking) will be taught and integrated throughout this course.

Interrelated Co-Op 1 & 2 (12th Grade Only) (1.25 Credits per semester)

ISCC: 10401G/22153A001/X401-X402

PREREQUISITE(S): Application & Coordinator Approval

Cooperative education is available to seniors who wish to receive on-the-job training in a field of their choice. Students attend school for a half-day and are employed for approximately 15 to 20 hours per week in business or industry. A teacher as well as the employer supervises the work. Students are paid a beginner's wage and receive 2 1/2 credits for the completed course. The course consists of the practical work experience and a one-hour class in school that is designed to help the student learn and progress on the job. Students are urged to take courses related to their field of interest prior and concurrently with cooperative education. Admission to the co-op program is by application. Excellent school attendance is required. Cooperative Education is a capstone course designed to assist students in the development of effective skills and attitudes through practical, advanced instruction in school and on the job through cooperative education. Students are released from school for their paid cooperative education work experience and participate in 200 minutes per week of related classroom instruction. Classroom instruction focuses on providing students with job survival skills and career exploration skills related to the job and improving students' abilities to interact positively with others. For skills related to the job, refer to the skill development course sequences, the task list or related occupational skill standards of the desired occupational program. The course content includes the following broad areas of emphasis: further career education opportunities, planning for the future, job -seeking skills, personal development, human relationships, legal protection and responsibilities, economics and the job, organizations, and job termination. A qualified career and technical education coordinator is responsible for supervision. Written training agreements and individual student training plans are developed and agreed upon by the employer, student and coordinator. The coordinator, student, and employer assume compliance with federal, state, and local laws and regulations. (X401-X402)

Introduction to Web Page Design (1/2 Credit)

ISCC: 10203G/10201A001

PREREQUISITE(S): Computer Apps



This course will teach students to create Web pages using HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets). They will create Web pages with hypertext links, tables, frames, forms, etc. Students should possess file management skills and expect to code using various source code editors and digital learning platforms. Students will also be exposed to JavaScript. This course is dual-credit with SWIC. CIS 174 HTML 5-3 credits.

Keyboarding (1/2 Credit)

ISCC: 10100G/12005A001/B101

PREREQUISITE(S): None



Keyboarding and Formatting is a course designed to develop basic skills in touch keyboarding techniques for entering alphabetic, numeric, and symbol information found on computers and terminals. During the second half of the course, major emphasis is placed on formatting documents, improving proofreading skills, and increasing speed and accuracy. This course is Dual-Credit with SWIC-OAT 170.

Personal Finance (1/2 Credit)

ISCC: 10301G/22210A000

PREREQUISITE(S): None



In this course, students will learn basic principles of making personal finance decisions and the economics of managing their own money. Students will learn why it is important to take the responsibility for their financial lives now, at a young age. This course will teach the financial terms and concepts needed that will significantly help them as they prepare for the financial opportunities and challenges they will face as adults. Topics will include preparing a budget, earning income and understanding your paycheck, buying goods and services, the importance of savings, different types of credit and its benefits and costs, risk and the different types of insurance, and financial investing and the importance of diversification. Overall, students will understand the importance of becoming educated and productive consumers. Dual Credit with SWIC (MGMT 117 Personal Finance This course is a study of financial choices and decisions facing the individual. Topics included are budgeting, credit, real estate, insurance, investments, taxes and retirement planning.)

Photoshop (1/2 Credit)

ISCC: 10104G/10201A001

PREREQUISITE(S): None



This course focuses on using image editing software; Adobe Photoshop CC. Students will learn how to scan, create, modify and reproduce photographs, artwork, composite images and printed advertising pieces. Students will learn how to deal with all types of graphics and prepare them for print or Web applications. Students will be exposed to various image editing techniques and skills. This course is dual-credit with SWIC. CIS 173 Adobe Photoshop CC-3 credits.

Small Business Basics (1/2 Credit)

ISCC: 10102G/12001A001/B105-B106

PREREQUISITE(S): Junior or Senior Credits (Age 16 & older); Instructor approval required

Students will operate a site-based business. Each environment will last one semester. 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 fields such as accounting, financial services, information technology, marketing, and management. Emphasis will be placed on using the computer while studying applications in these careers along with communication skills (thinking, listening, composing, revising, editing, and speaking), math and problem solving. Business ethics as well as other workplace skills will be taught and integrated within this course. This course is not intended to meet the consumer education requirement, but rather to provide preparation for the skill level courses that make up the Business, Marketing and Management occupations programs. Students will operate the Kahok Café 1-2 days weekly as part of the curriculum for the course.

Social Media & Digital Advertising (1/2 Credit)

ISCC: 10204G/11152A000

PREREQUISITE(S): Computer Apps

Communication online is different from paper. There are a large number of communication venues available through social media. Each has its own audience and purpose. This course will revolve around trending social media issues and how they impact our society today. Social Media topics include digital citizenship, the history and development of social media, the writing process and structure used when addressing certain audiences, and how companies and advertisers are using social media to promote their business and products. Students will also learn to use media and publication software to create various type of documents for mass publication and distribution. This would include flyers, newsletters, brochures, business cards, calendars, programs, etc. Students will also be taught the fundamental principles of effective design and layout.

Sports and Entertainment Marketing (1/2 Credit)

ISCC: 10208G/12164A001

PREREQUISITE(S): None

This course provides practical, usable knowledge from which the students can benefit if they choose to move into the business world. Principles of Marketing courses offer students insight into the processes affecting the flow of goods and services from the producer to the consumer. Course content ranges considerably as general marketing principles such as purchasing, distribution, and sales are covered; however, a major emphasis is often placed on kinds of markets; market identification; product planning, packaging, and pricing; and business management. A simulation will also be used to help reinforce these components.

Video Production (1/2 Credit per semester)

ISCC: 10202G/10201A001/B305-B306

PREREQUISITE(S): None

This course will offer students the opportunity to plan, film and edit video projects. Students will be working with Apple software applications. Instruction includes script writing, camera operations, audio and video editing, sound and lighting techniques and finalizing procedures. Students will complete multiple video projects including one off campus filming experience.

English Department

9 th Grade	10 th Grade	11 th Grade	12 th Grade
English I English I –Honors	English II English II – Honors	English III English Language and Composition III – AP	*College English English Literature and Composition IV – AP *Senior Composition
		*British Literature *Contemporary Fiction *Creative Writing *Gothic & Horror Literature *Journalism *Mythology *Nonfiction *Public Speaking *Science Fiction Literature *Women and Literature	

British Literature (1/2 Credit)

ISCC: 01303G/01056A000

PREREQUISITE(S): Current or Completed enrollment in English III

NCAA

British Literature will provide a survey of British literature and traditions spanning the Old English of medieval times to modern day. Readings will consist of fiction, poetry, and drama, and will include those authors considered part of the “literary canon,” such as Chaucer, Shakespeare, Austen, and Hardy. Students improve their critical thinking skills as they determine the underlying assumptions and values within the selected works and as they understand how the literature reflects on the society of the time. Oral discussion is an integral part of this course and written compositions and outside reading will be required. If taken as a senior, this course will fulfill one semester of senior English credit requirements. Senior students will still need the Senior Composition credit to completely fulfill their credit requirement.

College English (1/2 Credit)

ISCC: 01402E/01103A000

PREREQUISITE(S): “C” or higher in English III and/or teacher recommendation.

Must pass the COMPASS test to pursue SWIC Dual Credit for English 101.

NCAA



This will fulfill the senior composition requirement, offers senior students the opportunity to earn dual credit through Southwestern Illinois College (SWIC) and parallels the curriculum used by SWIC in English 101. Extensive writing of descriptive, narrative, persuasive, and expository essays will be required. This class will fulfill one semester of senior English credit requirement. Students must pass the COMPASS test (both Reading and Writing portions) in the Spring of their junior year in order to maintain enrollment in this course.

Contemporary Fiction (1/2 Credit)

ISCC: 01309G/01061A000

PREREQUISITE(S): Current or Completed enrollment in English III

NCAA

Contemporary Fiction focuses upon authors published within the past decade. Students will improve their critical-thinking skills as they determine the underlying assumptions and values within the selected works and as they understand how the literature reflects today’s society. Oral discussion is an integral part of this course, and written compositions are often required. If taken as a senior, this course will fulfill one semester of senior English credit requirements. Senior student will still need the Senior Composition credit to completely fulfill their credit requirement.

Creative Writing (1/2 Credit)

ISCC: 01306G/01104A000

PREREQUISITE(S): Current or Completed enrollment in English III

NCAA

This course offers the opportunity to develop and improve technique and individual style in poetry, short stories, essays, and other forms of prose. The emphasis of the course is on writing; however, students will study exemplary representations and authors to obtain a fuller appreciation of the form and craft. If taken as a senior, this course will fulfill one semester of senior English credit requirements. Senior students will still need to take the Senior Composition credit to completely fulfill credit requirements.

English I (1/2 Credit per semester)

ISCC: 01101G/01001A000

PREREQUISITE(S): Placement by entrance test

NCAA

English I provides a comprehensive composition-based program designed to improve students' writing and reading skills using complex literature and writing exercises. English I includes the study of various genres: short stories, poetry, plays, essays, and novels by American and international authors. The reading selections are both at and above grade level. One of the central goals of this class is to write and speak about literature effectively. Research skills will be introduced.

English I – Honors (1/2 Credit per semester)

ISCC: 01101A/01001A000

PREREQUISITE(S): Teacher recommendation and placement test score

NCAA

This is designed for the exceptionally talented freshman English student who intends to enroll in the AP English Program at the junior/senior levels. This rigorous course provides a comprehensive composition-based and grammar enhanced program designed to improve students' writing skills. This course builds upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and includes the four aspects of language use: poetry, plays, essays, and novels. Outside reading will be

English II (1/2 Credit per semester)

ISCC: 01201G/01002A000

PREREQUISITE(S): None

NCAA

English II offers a balanced focus on composition and literature. Students learn about the purposes and audiences of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students will improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message through literary elements. Vocabulary development and correct grammar usage will be covered at length.

English II – Honors (1/2 Credit per semester)

ISCC: 01201A/01002A000

PREREQUISITE(S): "C" or higher in Honors AP English I and teacher recommendation

NCAA

This is a rigorous course designed to prepare student for advancement into the junior/senior AP classes. Students study various AP-recommended methods of close reading of classic and contemporary pieces of literature, which are of greater difficulty than those of general or advanced English II classes, with literary technique and style as a major focus of discussion. The writing process receives further emphasis, concentrating on multi-paragraph compositions covering literary, persuasive, and creative topics. Grammar, vocabulary and speech skills will also receive enhanced treatment, and critical thinking ability will be promoted. Students will sharpen their research skills, and will compose a research project using multiple critical sources. A summer homework assignment is a requirement, as is outside reading throughout the school year.

English III (1/2 Credit per semester)

ISCC: 01301G/01003A000

PREREQUISITE(S): None

NCAA

English III continues to develop students' writing skills; emphasizing clear, logical writing patterns, word choice, and usage, as student write essays and continue to learn the techniques of writing research papers. Students continue to read works of American literature, which often form the backbone of the writing assignments.

English Language & Composition III - AP (1/2 Credit per semester)

ISCC: 01301A/01005A000

PREREQUISITE(S): "C" or higher in Honors English II and teacher recommendation

NCAA

English Language and Composition III - AP exposes students to prose written in a variety of periods, disciplines, and rhetorical contexts. This course emphasizes the interaction of authorial purpose, intended audience, and the subject at hand, and through them, students learn to develop stylistic flexibility as they write compositions covering a variety of subjects that are intended for various purposes

English Literature & Composition IV - AP (1/2 Credit per semester)

ISCC: 01401A/01006A000

PREREQUISITE(S): "C" or higher in AP English Language and Composition

NCAA

Following the College Board's suggested curriculum designed to parallel college-level English courses, English Literature and Composition IV - AP enables students to develop critical standards for evaluating literature. Students study the language, character, action, and theme in works of recognized literary merit; enrich their own understanding of connotation, metaphor, irony, syntax, and tone; write compositions of their own (including literary analysis, exposition, argument, narrative, and creative writing). English Literature and Composition IV - AP prepares student to take the AP English Literature and Composition exam in the spring for possible college credit. This year-long class will fulfill the senior English credit requirement.

Gothic & Horror Literature (1/2 Credit)

ISCC: 01302G/01053A000

PREREQUISITE(S): Current or completed enrollment in English III

NCAA

This course will improve students' language arts and critical thinking skills as they study several genres including short stories, novels, and poetry involving the gothic literary tradition and its history from its beginnings in the Romantic Period through today. Students determine the underlying assumptions and values within the selected works and also examine the structure, techniques, and intentions of the genre. Oral discussion is an integral part of this course. Written compositions and outside reading will be required. If taken as a senior, this course will fulfill one semester of senior English credit requirements. Senior students will still need the Senior Composition credit to completely fulfill their credit requirement.

Journalism (1/2 Credit)

ISCC: 01308G/11101A000

PREREQUISITE(S): Current or completed enrollment in English III.

NCAA

Journalism is a course designed for students interested in developing their skills as writers. The course will take a look at the contemporary media and explore the ethical and responsibility issues in the press today. Students will learn the fundamentals of news and feature writing, entertainment writing and opinion writing. Journalism history, law, ethics, social responsibility, interviewing, photojournalism and online reporting will also be taught. Additionally, it provides students hands-on experience in the process of producing a school newspaper, The Kahoki. If taken as a senior, this course will fulfill one semester of senior English credit requirements. Senior students will still need the Senior Composition credit to completely fulfill their credit requirements.

Mythology (1/2 Credit)

ISCC: 01310G/01099A000

PREREQUISITE(S): Current or completed enrollment in English III

NCAA

The mythology course will offer a survey of major characters and stories of the Greek and Roman classical mythology along with other world myths. Students will practice comparative mythology through writing and in dialogue with one another. Students will examine the mythological allusions in literature, art, and other areas as well as study holidays, Norse myths, folklore, and modern urban mythology. If taken as a senior, this course will fulfill one semester of senior English credit requirements. Senior students will still need the Senior Composition credit to completely fulfill their credit requirement.

Nonfiction (1/2 Credit)

ISCC: 01304G/01061A000

PREREQUISITE(S): Current or Completed enrollment in English III

NCAA

This course will examine different types of nonfiction such as the biography, autobiography, essay, letter, historical documents, and more. It will also include blends of nonfiction with other genres, such as the "literary journalism" demonstrated in Truman Capote's *In Cold Blood*. Students determine the underlying assumptions and values within the selected works and also examine the structure, techniques, and intentions of the genre. Oral discussion is an integral part of this course and written compositions and outside reading will be required. If taken as a senior, this course will fulfill one semester of senior English credit requirements. Senior student will still need the Senior Composition credit to completely fulfill credit requirement.

Public Speaking (1/2 Credit)

ISCC: 01403E/01151A000

PREREQUISITE(S): Must pass the COMPASS test to pursue SWIC Dual Credit.

Students will learn to select topics, gather information that supports the topic, organize the introduction, body and conclusion of the speech and prepare an outline. When presenting the speech, students will concentrate on language, delivery, and the use of visual aids. The first quarter covers interviewing a classmate and three informative speeches emphasizing objects, processes (demonstration), and events. The second quarter speeches include an informative speech, a persuasive speech, special occasion speech, and small group discussion.



Reading & Writing Basics (1/2 Credit per semester)

ISCC: 01100R/01068A00

NCAA

PREREQUISITE(S): Freshmen only; current English I enrollment; score below 30th percentile on ISAT reading; teacher recommendation

Reading/Writing Recovery is a year-long course offering diagnostic and remedial activities designed to correct reading difficulties and habits that interfere with students' progress in developing reading skills and understanding. Activities are chosen to increase or improve students' reading comprehension, reading technique, and general literacy skills.

Science Fiction Literature (1/2 Credit)

ISCC: 01305G/01053A000

NCAA

PREREQUISITE(S): Current or Completed enrollment in English III

This course will offer students a chance to study and reflect upon the themes presented in a survey of the Science Fiction genre. The course will incorporate both written work and oral discussion to improve critical thinking skills, and will address the issues/problems revealed about our own society as presented in at least three selected novels and a variety of short stories. If taken as a senior, this course will fulfill one semester of senior English credit requirements. Senior students will still need the Senior Composition credit to completely fulfill credit requirements.

Senior Composition (1/2 Credit)

ISCC: 01402G/01103A000

NCAA

PREREQUISITE(S): None

Senior composition, which will fulfill the senior composition requirement, focuses on students' writing skills and develops their ability to compose different types of papers for a range of purposes and audiences. This course enables student to explore and practice descriptive, narrative, persuasive, and expository styles as they write paragraphs, essays, letters, applications, formal documented papers, or technical reports. The focus will be on nonfiction and formal writing. This class fulfills one semester of the senior English credit requirement.

Women and Literature (1/2 Credit)

ISCC: 01307G/01064A000

NCAA

PREREQUISITE(S): Current or Completed enrollment in English III

In this course, students will have the opportunity to study and reflect upon the themes presented in literature written by female authors. Students will work to improve their critical thinking skills as they determine the underlying assumptions and values with the readings and as they understand how the works reflect society's problems and culture. Oral discussion is an integral part of the course, and written compositions are required. If taken as a senior, this course will fulfill one semester of senior English credit requirements. Senior students will also need the Senior Composition credit to completely fulfill credit requirements.

Family and Consumer Sciences Department

9 th Grade	10 th Grade	11 th Grade	12 th Grade
*Child Development *Foods & Nutrition I *Foods & Nutrition II *Health Occupations I *Health Occupations II *Introduction to Criminal Justice	All Prior Plus: *Adulting 101 *Medical Terminology	All Prior	All Prior

Adulting 101 (1/2 Credit)

ISCC: 07301G/22210A000

PREREQUISITE(S): None

This course is designed to focus on the knowledge, attitudes, and behaviors needed to participate in positive, caring, and respectful relationships in the family, community, and workplace. This project-based course uses communication, leadership and management methods to develop knowledge and behaviors necessary for individuals to become independent, contributing, and responsible participants in family, community, and career settings. Emphasis is placed on the development of techniques and strategies to assist individuals in responding to situations presented in family relationships and the workplace. The course content includes: managing responsibilities, satisfactions and stresses of work and family life; analyzing personal standards, needs, aptitudes and goals; roles and responsibilities of living independently and as a family member; demonstrating goal-setting and decision-making skills; identifying and

utilizing community resources; and developing effective relationships to promote communication with others. The course provides students content to identify resources that will assist them in managing life situations.

Child Development (1/2 Credit)

ISCC: 07101G/19052A001/H101

PREREQUISITE(S): None

Child Development and Parenting addresses the knowledge, skills, attitudes, and behaviors associated with supporting and promoting optimal growth and development of infants and children. The focus is on research -based nurturing and parenting practices and skills, including brain development research, that support positive development of children. Students will explore opportunities in human services and education related careers and develop a career portfolio. Topics covered will examine family planning options, conception growth and development concepts and delivery concepts are discussed. Baby simulator project and other equipment examines typical childhood behaviors through the lens of growth and development. ECE level one credential offered at completion of course.

Foods & Nutrition I (1/2 Credit)

ISCC: 07102G/16054A001/H104

PREREQUISITE(S): None

This course includes classroom and laboratory experiences needed to develop a knowledge and understanding of culinary principles and nutrition for people of all ages. Course content encompass': food service and preparation management using the decision -making process; meeting basic needs by applying nutrition concepts; meeting health, safety, and sanitation requirements; maximizing resources when planning /preparing/preserving/serving food; applying hospitality skills; analyzing nutritional needs in relation to change; and careers in nutrition and culinary arts, including entrepreneurship investigation. The course helps to develop a foundation for advanced food courses. **The fee associated with taking this course is \$50.**

Foods & Nutrition II (1/2 Credit)

ISCC: 07103G/16054A001/H105

PREREQUISITE(S): Foods & Nutrition I Preferred

In the second orientation level foods course, more attention is paid to food selection and preparation for special circumstances and dietary needs. Laboratory sessions are devoted to preparation of foods with specific characteristics. Course content includes careers in foods and nutrition, influences of food customs, diet and health, current nutritional issues, planning for special food needs, safety of foods, food purchasing, prevention of food-borne illnesses and conservation in providing food and food preservation. The application of these areas to occupations in food service is stressed. This course also provides principles of application into the hospitality industry, including nutrition, culinary, and entrepreneurial opportunities. Course content includes the following: selection, purchase, preparation, and conservation of food, dietary needs and trends, regional & international cuisine, safety and sanitation, and careers in food service industries. All of these concepts can be interpreted through laboratory experiences. There is a \$50 fee associated with this course. **The fee associated with taking this course is \$50.**

Health Occupations I (1/2 Credit)

ISCC: 07105G/14001A001/J105

PREREQUISITE(S): None

This course is designed to assist the student who is interested in health sciences to further develop his/her self-concept and match abilities to potential career choices. This course will also serve as an introduction to other health science courses necessary for a future in health careers. Any student who requests this course must complete an application that can be obtained from the Counseling Department. DCEO grant guidelines will guide application acceptance. The course should expose students to the variety of opportunities available within the health care industry (e.g., such as nursing, therapy, vision and dental care, administrative services, and lab technology) which should include classroom and community -based activities. The main purpose of this course is to assist students in further development of their self-concept and in matching personal abilities and interest to a tentative career choice. The course content will provide in-depth information into health occupations careers and trends, the occupational and educational opportunities and the educational, physical, emotional and attitudinal requirements.

Health Occupations II (1/2 Credit)

ISCC: 07106G/14002A002

PREREQUISITE(S): Health Occupations I

This course is designed to serve as an extension of Orientation to Health Occupations. The course provides students with a core of knowledge to the health care industry and helps refine their health care -related knowledge and skills. This core of knowledge will develop the students' cognitive and affective skills in formulating a strong foundation for entry -level skill development. Topics covered

usually include (but are not limited to) an overview of health care delivery; patient care, including assessment of vital signs, body mechanics, and diet; anatomy and physiology; identification and use of medical equipment and supplies; medical terminology; hygiene and disease prevention; first aid and CPR procedures; laboratory procedures; and ethical and legal responsibilities. Any student who requests this course must complete an application that can be obtained from the Counseling Department. DCEO grant guidelines will guide application acceptance.

Introduction to Criminal Justice (1/2 Credit)

ISCC: 07104G/15051A005/L201

PREREQUISITE(S): None

This is an introductory semester course designed to prepare students to enter the fields of law enforcement and the criminal justice system. Instruction includes the history of law enforcement and the legal system, report writing and recordkeeping, criminal investigation techniques, and routine police procedures. Students learn how to use communications and dispatch equipment, perform proper search and seizure techniques, conduct basic criminal investigations, and execute correct pursuit and arrest procedures. Instruction also includes patrolling techniques, private security operations, traffic investigations, and community relations. This course also provides an overview of the careers and complexities within the field of criminal justice. Our criminal justice process has evolved slowly, and has been influenced by many social and political factors. This course provides an understanding of contemporary policing: its history and traditions, and the laws under which it operates. Oral and written communication skills are stressed throughout the course, to help students develop the skills needed to successfully complete a degree in Administration of Justice.

Medical Terminology (1/2 Credit)

ISCC: 07201G/14002A001/J301

PREREQUISITE(S): 10th grade preferred (Age 16 & older)

Knowledge of medical terminology is an integral part of a health science career, providing an in-depth study of medical language as it relates to the structure and function of the human body in health and disease. Medical Terminology courses students learn how to identify medical terms by analyzing their components. These courses emphasize defining medical prefixes, root words, suffixes, and abbreviations. The primary focus is on developing both oral and written skills in the language used to communicate within health care professions.

Fine Arts Department

9 th Grade	10 th Grade	11 th Grade	12 th Grade
*Art *Cartooning *Ceramics Choir, Bass Choir, Concert Choir, Treble *Color Guard *Concert Band *Crafts *Illustration *Marching Band Music Appreciation Percussion Class Piano Class I *Printmaking *Sculpture *Symphonic Band Theater *Wind Ensemble	All Prior Plus: *Ceramics Drawing *Illustration Painting Piano Class II *Printmaking	All Prior Plus: Music Theory – AP *Photography Studio Art - AP	All Prior

Art (1/2 Credit)

ISCC: 05131G/05154A000

PREREQUISITE(S): None

This course is recommended to be taken as a first class to acquire the appropriate background before drawing and painting. It will provide students with the knowledge and the opportunity to develop skills and understanding of various art techniques. Terms, materials, and processes of art through the use of elements and principles of design are addressed. The course will focus on creation of art as well as major artists, art movements and styles.

Cartooning (1/2 Credit)

ISCC: 05132G/05199A000

PREREQUISITE(S): None

This class is for students that are interested in learning the basics of cartooning. In this class students will create gag cartoons, caricatures, political cartoons, comic strips and Anime style cartoons. The students will also learn about perspective, human form, color and types of humor. Students may be expected to furnish or purchase a portion of materials for some assignments.

Ceramics (1/2 Credit)

ISCC: 05133G/05159A000

PREREQUISITE(S): None

Ceramics focuses on creating three-dimensional works out of clay. The class will provide students with knowledge of terms, tools, processes, and techniques for making ceramic pieces. The wheel will be introduced into the class during the semester. Students will be encouraged to develop their own artistic styles using the various hand building methods within the class.

Choir, Bass (1/2 Credit per semester)

ISCC: 05121G/05110A000

PREREQUISITE(S): None

Choir provides the opportunity to sing a variety of choral literature styles for men's and/or mixed voices and is designed to develop vocal techniques and the ability to sing parts. This choir is for any high school male voice. Members may participate in solo and ensemble competition and are required to perform with the choir at all concerts and public performances.

Choir, Concert (1/2 Credit per semester)

ISCC: 05120G/05111A000

PREREQUISITE(S): Audition

Vocal Ensemble courses are intended to develop vocal techniques and the ability to sing parts in a large group, small ensemble, or madrigal groups. Course goals may include the development of solo singing ability and may emphasize one or several ensemble literature styles. Concert choir members audition for IMEA All-State and District Choirs, compete as a madrigal choir, sing in ensembles and as soloists, perform at community events, and present concerts. Students assume the responsibility for all chorus activities when registering for this class. Emphasis is on sight reading, general music knowledge and skills, appreciation of music, and performance techniques. Freshman are not eligible to take this course.

Choir, Treble (1/2 Credit per semester)

ISCC: 05122G/05110A000

PREREQUISITE(S): None

Choir provides the opportunity to sing in a variety of choral literatures styles for women's voices and is designed to develop vocal techniques and the ability to sing parts. This choir is for non-auditioned treble voices – usually only females. Members may participate in solo and ensemble competition and are required to perform with the choir at all concerts and public performances.

Colorguard (1/2 Credit—Fall only)

ISCC: ISCC: 05114G/05103A000

PREREQUISITE(S): None

The colorguard is part of the marching band. The activity ties aesthetic qualities of music with physical demands of the marching, dancing, maneuvering, and equipment control. It gives the individual a chance to participate on a "team," while giving them needed performance skills. The colorguard/marching band will perform at all home football games, selected athletic events, parades, and additional school/community events. Students will receive .5 credit in Fine Arts and .5 credit in Physical Education per year of Marching Band enrollment. (Summer rehearsals are also required to receive credit for physical education.)

Concert Band (1/2 Credit per semester)

ISCC: ISCC: 05113G/05102A000

PREREQUISITE(S): Prior experience on a wind or percussion instrument

Concert Band (freshman band) is comprised of primarily freshman who perform at a very high level on their instruments. Like the Wind Ensemble and Symphonic Winds, the Concert Band performs a wide variety of works including traditional wind band works, as well as

recently published literature. The ensemble performs 2 concerts in the fall and 3-4 in the spring. There is no prerequisite audition for the Concert Band. The ensemble is open to anyone interested in performing. The class is designed to develop students' understanding of the role of art and music in their lives through the performance of wind band literature. The ultimate goal is to provide every participant with musical experiences that will contribute to the development of the understanding necessary to become intelligent, critical consumers of art and music following graduation. Concurrently, materials are chosen to insure the development of the technique and musical knowledge necessary for those who may choose to pursue a career in music and the arts.

Crafts (1/2 Credit)

ISCC: 05134G/05165A000

PREREQUISITE(S): None

During the course of the class students will explore various traditional and contemporary crafts from multiple cultures. The elements and principles of art and art history will also be studied. Crafts focuses on a range of techniques including drawing, painting, textiles, mask-making, mosaics and more. Students may be expected to furnish or purchase a portion of materials for some assignments.

Drawing (1/2 Credit per semester)

ISCC: 05137G/05156A000

PREREQUISITE(S): Art

During the course of the class students will build upon their art skills to work with various forms of drawing materials (such as graphite, charcoal, ink, colored pencil and pastels). Using a variety of materials, the students will increase their knowledge of drawing from life and from two-dimensional sources to create realistic and stylized pieces. Students will learn about and apply the elements and principles of art into their projects to create dynamic compositions and study contemporary and historic artists. Students may be expected to furnish or purchase a portion of materials for some assignments.

Illustration (1/2 Credit)

ISCC: 05130G/05199A000

PREREQUISITE(S): Cartooning

This class expands on the concepts learned in the cartooning class. The students will work with plot and characters to illustrated stories for children's books, poetry, short stories and graphic novels. The students will also work with fashion design and graphic design during the class. The students will work with a variety of materials including collage, pencil, ink, colored pencils, watercolor, marker and Adobe Photoshop. Students may be expected to furnish or purchase a portion of materials for some assignments.

Marching Band (1/2 Credit)

ISCC: 05114G/05103A000

PREREQUISITE(S): None

The Marching Band is undoubtedly the most visible performance ensemble offered at CHS. The activity ties the aesthetic qualities of music with the physical demands of the marching medium. It gives the individual a chance to participate on a "team," while giving them needed performance skills. The amount of work and energy involved in the learning and performing of the show is directly proportionate to band experiences with others. It is a great way for students to represent themselves, their band, and Collinsville High School. The Marching Band will participate in several competitive marching shows in addition to performing at all home football games, selected athletic events, parades, and additional school/community events. Students will receive .5 credit in Fine Arts and .5 credit in Physical Education per year of Marching Band enrollment. (Summer rehearsals are also required to receive credit for physical education.)

Music Appreciation (1/2 Credit per semester)

ISCC: 05101G/05118A000

PREREQUISITE(S): None (Age 16 & older)

This course provides students the opportunity to receive college credit for successful completion of this course. Many college freshmen are required to take this course in as part of their general studies. Successful completion of Music Appreciation provides one college class for FREE to students age 16 and older. Music Appreciation explores the world of music and develops an understanding of the importance of music in our lives.

Music Theory - AP (1/2 Credit per semester)

ISCC: 05110A/05114A000

PREREQUISITE(S): Band or Choir/Approval of Instructor

AP Music Theory courses are designed to be the equivalent of a first-year music theory college course as specified by the College Board. AP Music Theory develops students' understanding of musical structure and compositional procedures. Usually intended for students who already possess performance-level skills, AP Music Theory courses extend and build upon students' knowledge of intervals, scales, chords, metric/rhythmic patterns, and the ways they interact in a composition. Musical notation, analysis, composition, and aural skills are important components of the course.

Painting (1/2 Credit per semester)

ISCC: 05138G/05157A000

PREREQUISITE(S): Art

Students will work with watercolor, acrylic and oil paints during the course of the class. Various techniques will be taught for each media. Students will work from life and two-dimensional sources to create their artwork in various styles. Students will learn about and apply the elements and principles of art into their projects to create dynamic compositions and study contemporary and historic artists. Students may be expected to furnish or purchase a portion of materials for some assignments.

Photography (1/2 Credit)

ISCC: 05136G/11052A003

PREREQUISITE(S): Juniors and Seniors only

Photography exposes students to the materials, processes, and artistic techniques of taking artistic photographs. Students learn about the operation of a SLR film camera, composition, lighting techniques, and depth of field, filters, camera angles, and film development. The course will cover black-and-white photography. As students advance, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic style. The course also covers major photographers, art movements, and styles. Will use some digital cameras. **There is a \$45 supply/material fee associated with this course.**

Percussion Class (1/2 Credit per semester)

ISCC: 05111G/05149A001

PREREQUISITE(S): Prior experience on a wind or percussion instrument

Percussion Class is an academic class designed primarily to develop the students' understanding of the role of art and music in their lives through the preparation and performance of outstanding wind band literature. The class is devoted to the growth and maturation of the individual's aesthetic potential. The ultimate goal is to provide every participant with musical experiences that will contribute to the development of the understanding necessary to become intelligent, discriminating, consumers of art and music following graduation. At the same time, materials are chosen to insure the development of the technique and musical knowledge necessary for those who may choose to pursue a career in music and the arts. All percussion students will be placed in the Percussion Class. Extra-curricular activities include Marching Band, Jazz Band, Lab Band, Flute Choir and Pep Band. For more information see the Band Handbook available in the band office.

Piano Class I (1/2 Credit per semester)

ISCC: 05151G/05107A000

PREREQUISITE(S): None

Students who would like to learn to play the piano will have the opportunity to learn in a state of the art piano lab. No prior knowledge is necessary. Piano courses introduce students to the fundamentals of music and basic keyboard techniques, including classical piano, playing by ear, and using chords to harmonize. This course may also include more advanced keyboard techniques and fundamentals of music theory.

Piano Class II (1/2 Credit per semester)

ISCC: 05152G/05107A000

PREREQUISITE(S): Recommendation of the course instructor.

This course provides individual instruction past that provided in Piano Class I. This course may also include more advanced keyboard techniques.

Printmaking (1/2 Credit)

ISCC: 05140G/05161A000

PREREQUISITE(S): None

Printmaking introduces students to a variety of printmaking techniques using processes such as relief printing (monoprint, collograph block); intaglio (engraving); and perigraphy (silkscreen films, stencils, block-out). The course emphasizes design elements and principles and introduces art criticism as applied to fine art prints. Lessons may include the historical development of printmaking in Western and non-Western cultures.

Sculpture (1/2 Credit)

ISCC: 05139G/05158A000

PREREQUISITE(S): None

During this course of the class student will explore various sculptural forms. The class will provide students with knowledge of terms and techniques to make artwork. It will use different materials to create three dimensional pieces. Students may be expected to furnish or purchase a portion of the materials for some of the assignments. The course will focus on creation of art as well as artists, art movements and styles.

Studio Art – AP (1/2 Credit per semester)

ISCC: 05131A/05172A000

PREREQUISITE(S): Seniors only, the recommendation of the Art Instructors and should have had drawing and/or painting prior to taking this class

Designed for students with a serious interest in art, AP Studio Art course enables students to refine their skill and create artistic works to be submitted to the College Board for evaluation. Given the nature of the AP evaluation, the courses emphasize quality of work, attention to and exploration of a particular visual interest or problem, the breadth of experience in the formal, technical, and expressive aspects of art. In these courses, students explore representation, abstraction, and experimentation with a variety of materials.

Symphonic Band (1/2 Credit per semester)

ISCC: 05112G/05102A001

PREREQUISITE(S): Prior experience on a wind or percussion instrument.

Symphonic Band is an academic class designed primarily to develop the students' understanding of the role of art and music in their lives through the preparation and performance of outstanding wind band literature. The class is devoted to the growth and maturation of the individual's aesthetic potential. The ultimate goal is to provide every participant with musical experiences that will contribute to the development of the understanding necessary to become intelligent, discriminating, consumers of art and music following graduation. At the same time, materials are chosen to insure the development of the technique and musical knowledge necessary for those who may choose to pursue a career in music and the arts. Wind players who elect to enroll in band will be assigned to either *Wind Ensemble* or *Symphonic Band*. Placement will be based on ability and will be determined by the band director. Extra-curricular activities include Marching Band, Jazz Band, Lab Band, Flute Choir and Pep Band. For more information see the Band Handbook available in the band office.

Theater (1/2 Credit per semester)

ISCC: 05161G/05053A000

PREREQUISITE(S): None

This course is designed to help develop students' experience and skill in one or more aspects of theatrical production. The course provides an overview of the features of drama such as acting, set design, stage management, and more. Additionally, the course will focus on improving technique, expanding students' exposure to different types of theatrical techniques and traditions, and increasing their chances of participating in public productions. Some discussion of career opportunities in the theater will also occur.

Wind Ensemble (1/2 Credit)

ISCC: 05113G/05102A000

PREREQUISITE(S): Prior experience on a wind or percussion instrument.

Percussion Class is an academic class designed primarily to develop the students' understanding of the role of art and music in their lives through the preparation and performance of outstanding wind band literature. The class is devoted to the growth and maturation of the individual's aesthetic potential. The ultimate goal is to provide every participant with musical experiences that will contribute to the development of the understanding necessary to become intelligent, discriminating, consumers of art and music following graduation. At the same time, materials are chosen to insure the development of the technique and musical knowledge necessary for those who may choose to pursue a career in music and the arts. All percussion students will be placed in the Percussion Class. Extra-curricular activities include Marching Band, Jazz Band, Lab Band, Flute Choir and Pep Band. For more information see the Band Handbook available in the band office.

Industrial/Technical Education Department

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Exploring Metals *Introduction to Electricity Introduction to Engineering Design *Introduction to Metals *Introduction to Robotics *Introduction to Welding *Introduction to Woods *Robotics	All Prior Plus: Principles of Engineering Woods I	All Prior Plus: Aerospace Engineering Auto Body I Engineering Design & Development Woods II	All Prior

Aerospace Engineering (AE) (1/2 Credit per semester)

ISCC: 09309V/21013A001

PREREQUISITE(S): Passing Introduction to Engineering & Principles of Engineering with a “C” or better.

Designed for 10th-12th grade students, the major explores the evolution of flight, navigation and control, flight fundamentals, aerospace materials, propulsion, space travel and orbital mechanics. In addition, this course presents alternative applications for aerospace engineering concepts. Students analyze, design and build aerospace systems. Through hands-on engineering projects developed with NASA students learn about aerodynamics, astronautics, space-life sciences and systems engineering (which includes the study of intelligent vehicles like the Mars rovers Spirt and Opportunity). They will apply knowledge gained throughout the course in a final presentation about the future of the industry and their professional goals.

Engineering Design and Development-Capstone Course (1/2 Credit per semester)

ISCC: 09401G/21007A002

PREREQUISITE(S): Passing Introduction to Engineering & Principles of Engineering with a “C” or better

Designed for 11th-12th grade students, the knowledge and skills students acquire throughout PLTW Engineering come together in EDD as they identify an issue and then research, design and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD ready to take on any post-secondary program or career. This course is an advanced course in which students demonstrate mastery of knowledge and skills from previous pre-engineering courses to develop an original product or machine design. In groups using project-based learning, students research, design, and construct a solution to an engineering problem. Students apply principles developed in the preceding courses and are guided by an industry mentor. Students must present progress reports, submit a final written report, and defend their solutions to a panel of outside reviewers at the end of the course. Students are placed in management situations in production operations to develop leadership.

Exploring Metals (1/2 Credit per semester)

ISCC: 09203G/13203A005/M301-M302

PREREQUISITE(S): None

Exploring metals is a course which teaches the fundamentals of working with metal, using both hand and power tools. This course focuses on developing skills for metal working by learning how to properly use hand and machine tools. Classroom introduction to precision machine tools, lathe, mill, a brief introduction to CAD/CAM software and CNC milling and turning centers. Hands-on intro to metallurgy, sheet-metal layout, various methods of joining metals and materials, bench work procedures, fasteners, discussion about various metal working, manufacturing, and machining careers. Proper material selection for different student projects will enhance their knowledge of planning and estimating projects. Safety procedures and practices are strongly enforced during this course. This course also emphasizes bench work operations, proper housekeeping and record keeping activities.

Introduction to Electricity (1/2 Credit)

ISCC: 09102G/20101A001/C203

PREREQUISITE(S): None

This course allows students to experiment with electricity in a safe environment while teaching them how to perform basic house wiring tasks such as connecting to the panel box, wiring switches, lights, outlets and GFCIs. The students will learn electrical safety practices while creating simple projects such as building speakers, motors, and crystal radios. The purpose of this course is to provide the students with a broad background in the theory of electronics and its applications within the electronics field. Emphasis is placed upon applying theory to practical laboratory learning experience and safety principles and practices. This incorporates the use and application of electronic test equipment and soldering tools. Higher math skills are used extensively to calculate goals and results of experiments. This is a course designed to foster an awareness and understanding of how we use energy in our industrial technological society. Areas of study include conversion of energy, electrical fundamentals, solar energy resources, alternate energy resources such as wind, water, and

geothermal; fossil fuels, nuclear power, energy conservation, and computer uses in energy technology. Students use laboratory experiences to become familiar with current energy technologies.

Introduction to Engineering Design (IED) (1/2 Credit per semester)

ISCC: 09106G/21006A001

PREREQUISITE(S): None

Designed for 9th or 10th-grade students, the major focus of the IED course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. Students use 3D solid modeling design software to help them design solutions to solve proposed problems and learn how to document their work and communicate solutions to peers and members of the professional community. This course teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using solid modeling computer design software.

Introduction to Metals (1/2 Credit)

ISCC: 09103G/13203A005/C209

PREREQUISITE(S): None

This orientation level course is designed to give the students experience with the basic metalworking hand and machine tools with an emphasis on safety. Topics include the basic math for measurement, general sheet metal layout, and the production of projects. The development and completion of these projects provide a chance to bring the students in contact with each of the four manufacturing processes & cutting, forming, fastening, and finishing. General information about various metals, materials, and processes is provided. Also included in this class will be some explanatory concepts and techniques involved in production and manufacturing.

Introduction to Robotics (1/2 Credit)

ISCC: 09202G/10152A001/C205

PREREQUISITE(S): None

Discover how to move Lego[®] robots while learning to program using the language “Interactive C.” Build a robot using a Gameboy and an XBC as the ‘brain.’ Create the robot’s senses by using digital and analog sensors such as ultrasonic and infrared. Throughout this course, students are presented with a set of open-ended challenges. As a group, they problem-solve, invent strategy, design an original robot, and test their creation’s performance under a variety of conditions and environments. Students often find that they must test multiple designs until they meet their objectives. The Botball robotics equipment promotes inquiry-based group activity, and can be used over and over again in as many experimental designs as the students can imagine.

Introduction to Welding (1/2 Credit)

ISCC: 09104G/20101A001/C210

PREREQUISITE(S): None

Welding is the most common method of joining two or more pieces of metal to make them act as a single piece. This orientation level course provides students with a general introduction to the occupation and practice of welding. The class will introduce Oxy-acetylene (gas) and Shielded Metal Arc Welding. Students will also practice cutting metal with an oxyacetylene cutting torch, how to prepare metal for welding and fuse different welding joints. A variety of tools and equipment will be used after reviewing their safety procedures and practices.

Introduction to Woods (1/2 Credit)

ISCC: 09105G/13052A001/C102

PREREQUISITE(S): None

This course will explore some of the fundamentals of woodworking, as a means to familiarize students with various industrial processes and occupations. It is designed to foster awareness and understanding of manufacturing and construction technology. Through a variety of learning activities, students are exposed to many career opportunities in the production field. Experiences in manufacturing include project design, materials, and assembly processes. Hand and power tools are introduced along with shop safety in the shop environment. Course content includes how to use various woodworking machines and power tools for cutting and shaping wood, including different methods of joining pieces of wood, by use of mechanical fasteners, attachment of hardware. Production planning, mass production, and servicing will be discussed.

Principles of Engineering (POE) (1/2 Credit per semester)

ISCC: 09107G/21004A001

PREREQUISITE(S): Passing Introduction to Engineering with a “C” or better.

Designed for 9th - 11th grade students, this survey course of engineering exposes student to major concepts they’ll encounter in a

postsecondary engineering course of study. Students employ engineering and scientific concepts in the solution of engineering design problems. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, documenting their work and communicating solutions to peers and members of the professional community.

Robotics (1/2 Credit)

ISCC: 09204G/21009A001/C205

PREREQUISITE(S): Intro to Robotics

This course provides a comprehensive approach to learning the technical aspects of constructing and programming robotics. This course is an introductory course to mechatronics. It introduces the ideas of electronics (including soldering), programming and mechanical engineering and ties them together by building real life robots that students take home – such as “The Useless Box” (see Youtube). The course covers robotic principles, power supplies and movement systems, digital and analog control systems. Typical programming and building techniques for basic robots as well as larger industrial robots will also be covered.

Woods I (1/2 Credit per semester)

ISCC: 09205G/13052A002/C201-C202

PREREQUISITE(S): Intro to Woods preferred

This full year course gives students the opportunity to expand the skills learned in the orientation course. This course exposes students to millwork, millwright and construction industries. It is designed to foster an awareness and understanding of manufacturing and construction technology. Through a variety of learning activities, students are exposed to many career opportunities in the production and manufacturing field. Experiences in manufacturing include project design, materials, and assembly processes. Students will use both hand and power/machine tools in becoming familiar with basic woodworking production. Students will be instructed in planning, layout, assembly, product finishing. Course content will discuss research and development, production planning, for industrial practices. Emphasis is placed on safety, accuracy, efficiency and quality of the finished product. Other topics include wood product marketability, mass production. This course will allow the students to make meaningful decisions regarding further industrial occupations.

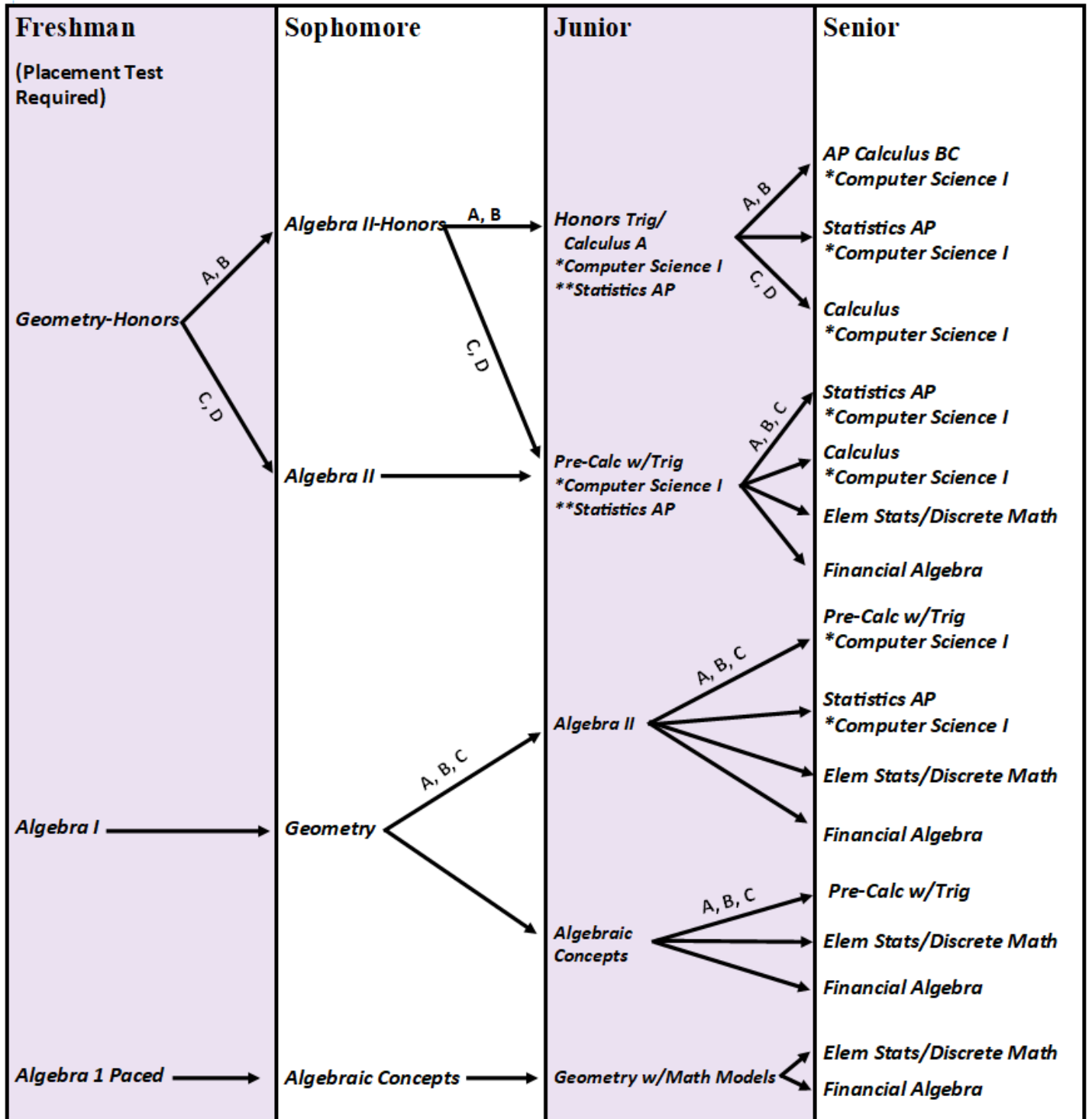
Woods II (1/2 Credit per semester)

ISCC: 09206G/13052A001

PREREQUISITE(S): Woods I

This full year accelerated course is designed to provide students additional opportunity to explore advanced woodworking topics as a means to become familiar with various industrial processes and occupations. Students expand their knowledge and skills in project planning, fabrication, layout, assembly, and finishing. Students will use both hand and power/machine tools in becoming familiar with advanced woodworking production. Featured topics are prototype creations, research and development, structural design and CNC design, and production planning, for industrial practices. Emphasis is placed on safety, accuracy, efficiency and quality of the finished product. Other topics include wood product marketability, mass production. This course will allow the students to make meaningful decisions regarding further industrial occupations. Specific study in the areas of Production, are designed to foster an awareness and understanding of manufacturing and construction technology.

Math Department



*Computer Science I may be taken junior or senior year along with AP Calculus BC, Calculus, Statistics AP, Honors Calc w/Trig or Honors Trig/Calculus A

**Statistics AP may be taken concurrently with Honors AP Trig/Calculus A

Grades shown on arrows are prerequisites to get into the next course. All courses will be taught numerically, algebraically, graphically, and verbally. If no grades are shown, you may take the next course with any passing grade.

Algebra I Paced (.75 Credit per semester) 1 NCAA credits

NCAA

ISCC: 02101G/02053A000

PREREQUISITE(S): Placement test score & 8th grade math or teacher recommendation/ Dual enrolled with Algebra IB Paced.

Semester 1: Topics studied include a review of properties of exponents, writing and evaluating expressions, function rules, properties of numbers, rational numbers, writing and solving multi-step equations and inequalities, graphing and solving inequalities, including compound inequalities. Students will model data using equations, tables, and graphs, write linear equations, and examine the relationship between slope, and rate of change. Students will create and interpret scatterplots and find linear regressions. Students will graph and identify the key features of linear and exponential functions.

Semester 2: Topics include systems of equations, and systems of inequalities. Students will create graphical representations of data and use it to describe the distribution. Polynomials will be added, subtracted and multiplied. Trinomials will be factored, including special cases, quadratic equations will be solved by square roots, factoring, completing the square, and the quadratic formula. Students will simplify expressions containing radicals. Students will graph and identify the key features of quadratic, piecewise, absolute value, and square root functions.

Algebra I (1/2 Credit per semester)

NCAA

ISCC: 02102G/02052A000

PREREQUISITE(S): Placement test score, standardized test scores and/or teacher recommendation

Semester 1: Topics studied include writing and evaluating expressions, function rules, properties of numbers, rational numbers, writing and solving multi-step equations and inequalities graphing and solving inequalities, including compound inequalities. Students will model data using equations, tables, and graphs, write linear equations, and examine the relationship between slope, and rate of change. A review of properties of exponents will be studied. Students will create and interpret scatter plots and find linear regressions. Students will graph and identify the key features of linear and exponential functions.

Semester 2: Topics include systems of equations, and systems of inequalities. Students will create graphical representations of data and use it to describe the distribution. Polynomials will be added, subtracted and multiplied. Trinomials will be factored, including special simplify expressions containing radicals. Students will graph and identify the key features of quadratic, piecewise, absolute value, and square root functions.

Algebra II (1/2 Credit per semester)

NCAA

ISCC: 02203G/02056A000

PREREQUISITE(S): Geometry with a “C” or better; Geometry with Math Models with teacher recommendation; Honors Geometry with a “C” or D”

This is a course covering typical Algebra II topics including quadratic functions, polynomial functions, radical functions, rational exponential functions, logarithmic functions, rational functions, sequences and series and probability.

Algebra II – Honors (1/2 Credit per semester)

NCAA

ISCC: 02203A/20256A000

PREREQUISITE(S): Honors Geometry with an “A” or “B” and/or teacher recommendation

This is a course covering typical Algebra II topics including quadratic functions, polynomial functions, radical functions, rational exponents, exponential functions, logarithmic functions, rational functions, conics, sequences and series, probability and matrices. All students in the Honors pathway will be responsible for a math portfolio as defined by the teacher for that course. TI-84 graphing calculator required.

Algebraic Concepts (1/2 Credit per semester)

ISCC: 02303G/02056A000

PREREQUISITE(S): Both Algebra 1A and 1B Paced with grade of “D” or better; Geometry with a “D” or better; Junior or Senior/teacher recommendation.

This is a course covering typical Algebra II topics including quadratic functions, polynomial functions, radical functions, rational exponential functions, logarithmic functions, rational functions, sequences and series and probability. TI-84 graphing calculator recommended.

AP Calculus BC (1/2 Credit per semester)

NCAA

ISCC: 02406A/02124A000

PREREQUISITE(S): Honors AP Trig/Calculus A with “A” or “B”, and/or teacher recommendation

It is expected that students who take the AP Calculus BC course will seek college credit, placement, or both from institutions of higher

learning. After a quick review of the differential branch of Calculus, AP Calculus BC will begin the study of the integral branch of Calculus. Topics covered will include: interpretations and properties of definite integrals, differential equations, applications of integrals, the Fundamental Theorem of Calculus, techniques and applications of anti-differentiation, including the use of Riemann, trapezoidal, and Simpson's sums to approximate definite integrals of functions represented algebraically, graphically, and by table of values. Additionally, functions will be studied in parametric, polar and vector forms including their derivatives and integrals. Series will also be studied including geometric, harmonic, alternating, Taylor and Maclaurin. All students in the AP pathway will be responsible for an online math portfolio utilizing WebAssign. Graphing calculator required. (TI-84 Preferred)

Calculus (1/2 Credit per semester)

ISCC: 02406G/02121A000

NCAA

PREREQUISITE(S): Honors Trig/Calculus A with "C" or "D"; Pre-Calculus with Trig with a "C" or better and teacher recommendation

Calculus begins with a review of Analytic Geometry and Trigonometry. Next begins the study of limits and their properties, which leads to the study of differentiation involving topics like the slope of a curve, velocity, acceleration, related rates, maximum and minimum, and others. Various integration techniques are studied as well as the application of these techniques such as the area between two curves, volume of a solid, length of a curve, surface area, and others. Graphing Calculator required.

Computer Science I (1/2 Credit per semester)

ISCC: 02407E/10152A002

NCAA

PREREQUISITE(S): Algebra II with a "C" or better

CO-REQUISITE(S): Requires concurrent enrollment in one (1) of the following:

Honors AP Trig/Calculus A, Pre-Calc w/Trig, AP Calculus BC, AP Statistics or Calculus; Junior or Senior

This course is designed to be equivalent to the first-semester, college-level course for computer science majors. The course emphasizes an introduction to computer organization, problem solving with computers and programming a high-level language (for example Java, C, or C++). Programming will emphasize software design techniques including top-down design strategies, the design and use of data structures and algorithms and the fundamentals of object-oriented programming and program design.

Discrete Math (1/2 Credit)

ISCC: 02404G/02102A000

NCAA

PREREQUISITE(S): Algebraic Concepts, Algebra II or teacher recommendation; Senior Only

The Discrete Math course is a one-semester course and intended primarily for Senior students. It includes the applications of discrete sets – collections of things that are finite or countable. The topics studied include: sets and functions, graphs (for solving scheduling problems, map colorings, etc.) trees (for solving problems about minimal distances or costs and maximum profits), network flows (used to solve real life problems like the Alaskan Pipeline Layout); and combinatorial permutations, combinations, arrangements and selections with repetition, and probability.

Elementary Statistics (1/2 Credit)

ISCC: 02403G/02201A000

NCAA

PREREQUISITE(S): Algebra Concepts, Algebra II or teacher recommendation; Senior only

The Elementary Statistics course is a one-semester course, offered during the first semester and intended primarily for Senior students. It includes an in-depth study of data analysis with topics including the construction and drawing of inferences from charts, tables, and graphs; curve fitting to make predictions; the use of measures of central tendency and variability; the calculation of correlations; and the use of sampling theory.

Financial Algebra (1/2 Credit per semester)

ISCC: 02401G/02155A000

PREREQUISITE(S): Algebra II, Algebraic Concepts, Geometry or Geometry w/Math models; Senior only

Financial Algebra is an algebra-based, technology-rich course that uses algebraic and graphical approaches with practical business and personal finance applications. It also introduces topics from higher math in an ability-appropriate way, while covering the study of taxes, insurance, banking, budgeting, investing, home ownership, auto ownership, credit and more. It offers students the opportunity to explore algebraic thinking patterns and functions in a financial context.

Geometry with Mathematical Models (1/2 Credit per semester)

ISCC: 02301G/02072A000

PREREQUISITE(S): Completed Algebraic Concepts

This course is designed to show the connections between Geometry and Algebra. Emphasis is placed on discovering and applying practical geometry that is used in the workplace to help make connections from concrete examples to abstract concepts. It presents the concepts of congruence, similarity, parallelism, perpendicularity, plane and solid figures, surface area and volume, proportion and ratios of angle measurements in triangles. This course teaches students how to problem-solve, communicate mathematically, create and interpret mathematical representations and models and make efficient and appropriate use of technology to solve problems.

Geometry (1/2 Credit per semester)

ISCC: 02202G/02072A000

PREREQUISITE(S): Algebra I with a grade of “D” or better for Sophomore, Junior, Senior.

This course emphasizes an abstract, formal approach to the study of Geometry which includes topics such as properties of plane and solid figures, deductive methods of reasoning and use of logic, geometry as an axiomatic system including the study of postulates, theorems, and formal proofs, concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and ratios of angle measurements in triangles. This course teaches students how to problem-solve, communicate mathematically, create and interpret mathematical representations and models and make efficient and appropriate use of technology to solve problems.

NCAA

Geometry – Honors (1/2 Credit per semester)

ISCC: 02103A/02072A000

PREREQUISITE(S): Placement test score, teacher recommendation, Algebra I with “A” or “B” and/or standardized test scores; Freshman or Sophomore with Algebra I teacher recommendation.

Honors Geometry will expect students to be highly motivated learners as the instruction will be faster paced with an expectation of a higher level of understanding. The purpose of this course is to formalize and extend students’ prior foundational geometry experiences. This is an enhanced version of the standard geometry course where students will explore more advanced geometric situations, apply their algebra skills from last year to geometry problems, and deepen their explanations of geometric relationships with enriched, multi-step problems. Topics include congruency, similarity, transformations, trigonometry, proofs, constructions, properties of 2D and 3D shapes, area, surface area, and volume. The eight Standards of Mathematical Practices (goo.gl/LiGnY6) are applied throughout the course. All students will be responsible for a math portfolio as defined by the teacher.

NCAA

Math 4 - STEM (1/2 Credit per semester)

ISCC: 02408G/02055A001

PREREQUISITE(S): Student must have fulfilled math graduation requirements and tested “Not College Ready” on standardized testing.

This course is designed to prepare students for college and career pathways in areas such as: Science, Technology, Engineering, and Math or STEM which require advanced algebraic skills or calculus. Successful completion of the course (C or better grade in course and on final exam) will enable students to transition directly into credit bearing college-level algebra courses. Topics of study will include functions (linear, polynomial, rational, radical & exponential) and their modeling in real life situations. Emphasis will be placed on the eight mathematical practices (particularly modeling) so that students are able to demonstrate and justify (orally & written) conceptual understanding of functions combined with advanced algebraic knowledge to solve complex, contextualized, multi-step problems in authentic settings.

Pre-Calculus with Trig (1/2 Credit per semester)

ISCC: 02302G/02110A000

PREREQUISITE(S): Algebra II, Algebra II – Honors with a “C” or Algebraic Concepts with a “B” or better or teacher recommendation

Pre-Calculus courses combine the study of Trigonometry, Elementary Functions, Analytic Geometry, and Math Analysis as topics as preparation for calculus. Topics typically include the study of polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations; inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system (time permitting); conic sections (time permitting); matrix algebra; sequences and series (time permitting). Graphing Calculator required.

NCAA

Honors Trig/Calculus A (1/2 Credit per semester)

ISCC: 02302A/02110A000

NCAA

PREREQUISITE(S): Algebra II – Honors with “A” or “B”/teacher recommendation

During Semester 1, students will study trigonometric functions: analytic trigonometry and applications including Laws of Sines and Cosines, vectors, and DeMoivre’s Theorem, and conics. During semester 2, students will begin the study of Calculus. Calculus begins with the study of limits, continuity, asymptotic and unbounded behavior of a function that leads to the study of the derivative. Various techniques of the differentiation are explored such as the derivative of a sum, product,

quotient, power, trigonometric functions, inverse trigonometric functions, logarithmic functions, exponential functions and others. These ideas are utilized in solving problems dealing with the slope of a curve, velocity, acceleration, related rates and others. Students will study analysis of functions and their graphs and explore the first and second derivatives tests. The derivative as a function, optimizations, rectilinear motion, Newton’s Method and the Mean Value Theorem and its geometric consequences will also be studied. All students in the Honors pathway will be responsible for an online math portfolio utilizing WebAssign. Graphing calculator required. (TI-84 Preferred)

Statistics - AP (1/2 Credit per semester)

ISCC: 02405A/02203A000

NCAA

PREREQUISITE(S): GPA and/or standardized test scores. Algebra II with “C” or better and/or teacher recommendation

The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: (1) Exploring Data: Describing patterns and departures from patterns, (2) Sampling and Experimentation: Planning and conducting a study, (3) Anticipating Patterns: Exploring random phenomena using probability and simulation, and (4) Statistical Inference: Estimating population parameters and testing hypotheses. Students who successfully complete the course and AP exam may receive credit, advanced placement or both for a one-semester introductory college statistics course. All students will be responsible for a math portfolio as defined by the teacher for that course. Graphing calculator is required.

Physical Education Department

Aerobic Fitness (1/2 Credit)

ISCC: 08104G/08005A000

PREREQUISITE(S): None

This course is designed to increase cardiovascular fitness, muscle tone, weight control, and lifetime fitness habits. It will also increase knowledge and awareness of proper and safe exercise techniques. Aerobics class is intended for students who are interested in improving or maintaining their overall fitness level. This course includes physical workouts (strength training, step aerobics, circuit training, cardio-kick aerobics, core stabilization exercises, interval training, Zumba, Insanity, PIYO and P90X) along with instruction on basic fitness concepts. Fitness levels will be assessed throughout the semester by using a variety of fitness tests including FitnessGram, mile, fitness walking and pacer.

Athletic Physical Education (1/2 Credit per semester)

ISCC: 08102G/08005A000

PREREQUISITE(S): Member of SIJHSAA OR IHSA Collinsville school sponsored team sport. Athlete must indicate sport(s) they are currently participating in. Enrollment subject to approval by Athletic Director and coach

Athletic physical education is offered to freshman through seniors who played on a Collinsville school sponsored SIJHSAA or IHSA team sport the previous year and will be participating this year. This course is designed to help athletes to understand how to reach their physiological best in terms of cardio respiratory endurance, muscular strength and endurance, agility, speed, flexibility, and body composition. The athletic physical education students will understand the physical, mental, emotional, and social make-up of the total athlete, as well as, teamwork, sportsmanship, theories and techniques of athletics. Students enrolled in athletic physical education will be expected to understand the importance of nutrition, the place of technology, and the importance of cooperation and camaraderie.

Special Note: Athletes enrolled who quit or are removed from a team will be put back into regular physical education at semester. If the athlete that is removed quits the team and plays another sport, he/she will need to obtain a new permission form signed by BOTH the varsity coach and athletic director. Any student not meeting classroom or teacher expectations will go through an intervention process. This process will allow the student/athlete the opportunity to improve their participation or risk being removed from athletic physical education and placed in regular physical education.

Colorguard (1/2 Credit—Fall only)

ISCC: ISCC: 05114G/05103A000

PREREQUISITE(S): None

The colorguard is part of the marching band. The activity ties aesthetic qualities of music with physical demands of the marching, dancing, maneuvering, and equipment control. It gives the individual a chance to participate on a “team,” while giving them needed performance skills. The colorguard/marching band will perform at all home football games, selected athletic events, parades, and additional school/community events. Students will receive .5 credit in Fine Arts and .5 credit in Physical Education per year of Marching Band enrollment. (Summer rehearsals are also required to receive credit for physical education.)

Health Education (1/2 Credit)

ISCC: 08201G/08051A000

PREREQUISITE(S): None

This course is designed to give students a basic understanding of the structure and function of the human body, disorders, diseases, and injuries that affect the mind and body, and how to care for their bodies in order to maintain a state of optimal mental and physical well-being. Instruction in the recognition and care of emergency situations is included in this course to enable students to cope with emergencies when and if necessary. Outside speakers are utilized to strengthen and enrich. Course objectives include enabling students to learn sound health facts and to cultivate sound health and safety habits.

Marching Band (1/2 Credit)

ISCC: 05114G/05103A000

PREREQUISITE(S): None

The Marching Band is undoubtedly the most visible performance ensemble offered at CHS. The activity ties the aesthetic qualities of music with the physical demands of the marching medium. It gives the individual a chance to participate on a “team,” while giving them needed performance skills. The amount of work and energy involved in the learning and performing of the show is directly proportionate to band experiences with others. It is a great way for students to represent themselves, their band, and Collinsville High School. The Marching will participate in several competitive marching shows in addition to performing at all home football games, selected athletic events, parades, and additional school/community events. Students will receive .5 credit in Fine Arts and .5 credit in Physical Education per year of Marching Band enrollment. (Summer rehearsals are also required to receive credit for physical education.)

Physical Education (1/2 Credit per semester)

ISCC: 08101G/08001A000

PREREQUISITE(S): None

Physical Education is a unique part of the entire school curriculum. It is more than a game, dance, or tumbling routine. It will, with adequate cooperation of all factions, ultimately become a way of life. The course gives every student an opportunity to become unified physically, mentally, and socially by developing education behavior in the form of knowledge, attitude, and practice. Physical Education hopes to promote civic responsibility by teaching of games and sports, to abide by the rules, to respect the rights of others, to be courteous, and to acknowledge the need for authority. Exposure to theories, techniques, and fundamentals will allow the individuals to utilize their leisure time hours more efficiently, as they progress through the stages of life. Fitness levels will be assessed throughout the semester by using a variety of fitness tests including FitnessGram, mile and pacer.

Wellness Physical Education (1/2 Credit)

ISCC: 08105G/08005A000

PREREQUISITE(S): None

This class is an alternative to a traditional P.E. class. There will be individual goals made by the student based on lifestyle changes desired. Examples could be toning, better overall fitness, weight control, etc. Different methods to obtain these goals will be used. Some examples include: Pilates, yoga, eccentric stretching, weight lifting, relaxation techniques, walking for fitness, and nutrition analysis. Fitness levels will be assessed throughout the semester by using a variety of fitness tests including FitnessGram, mile and pacer.

Science Department

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Biology I Biology I – Honors Physical Science	All Prior Plus: Chemistry I Chemistry I – Honors	All Prior Plus: Anatomy & Physiology *Astronomy Biology II Biology II – AP Chemistry II Chemistry II – AP Environmental Science Forensic Science *Geology Physics I Physics I – AP	All Prior Plus: Physics C – AP Physics II - AP

Science requirement is fulfilled upon the successful completion of a life science (Biology) and a physical science (Physical Science or Chemistry)

Anatomy & Physiology (1/2 Credit per semester)

ISCC: 03309G/03053A000

PREREQUISITE(S): Successful completion of Chemistry I and Biology I.

This is a laboratory and dissection course. Topics to be studied the first semester include the organization of the body and functions of the eleven body systems. In each system, we will discuss related diseases and chemistry connections. Body Systems discussed are: Integument, Bones, Muscles, Nervous, Sense Organs, and Endocrine. The second semester examines the Circulatory, Lymphatic, Immune, Respiratory, Urinary, Digestive, and Reproduction. We will include case studies, and POGILS that allow students to engage in cooperative learning.

NCAA

Astronomy (1/2 Credit)

ISCC: 03301G/03004A000

PREREQUISITE(S): Successful completion of a physical science course.

This course is an introduction to astronomy. This course will focus on the basics of astronomy including the structure of the solar system, stars, planets, and the universe. The laboratory portions will emphasize the structure of light, distance measurement, proportionality, radio waves, and use of the Internet to view new discoveries in the universe.

NCAA

Biology I (1/2 Credit per semester)

ISCC: 03102G/03051A000

PREREQUISITE(S): None

This laboratory-based course of study begins the year with the structural and chemical composition of living things from molecules to organisms and emphasizes the importance of cellular respiration and photosynthesis. The first semester also includes the role of DNA in the study of inheritance and variation of traits. The second semester's topics include a study of the interactions, energy and dynamics of ecosystems and biological evolution.

NCAA

Biology I – Honors (1/2 Credit per semester)

ISCC: 03102A/03052A000

PREREQUISITE(S): Teacher recommendation, GPA, and/or standardized test scores.

This is an advanced placement preparatory course designed to meet the needs of college bound students. The course of study includes the structural and chemical make-up of living things, the interactions within an organism, the continuity of life and the study of the environment and other ecological information, systems of classification, as well as how to use a classification key, kingdoms, and principles of heredity. This course is recommended for above average students who are interested in an academic challenge.

NCAA

Biology II (1/2 Credit per semester)

ISCC: 03304G/03052A000

PREREQUISITE(S): Successful completion of Biology I

This laboratory course includes classification & activities of Viruses, Arch bacteria, Eubacteria, Protists, Fungi, Microbial diseases and Plants during the first semester. The second semester of study includes invertebrates and vertebrate animals and their systems along with vertebrate dissections. The study of ecology is also included. Students will do special readings and research topics determined during the course of the year.

NCAA

Biology II - AP (1/2 Credit per semester)

ISCC: 03304A/03056A000

NCAA

PREREQUISITE(S): Successful completion of Biology I – Honors AP and Chemistry I. teacher recommendation, GPA and/or standardized test scores.

This course of study is designed for academically talented and hardworking students who desire to learn on the college level and may wish to take the advanced placement examination. The first semester is the study of plants, biological chemistry, the cell with its structures and functions, and energy transformations during photosynthesis and cell respiration. The second semester includes the study of cell division, genetics, heredity, evolution, and the five kingdoms of organisms. Ecology is also studied.

Chemistry I (1/2 Credit per semester)

ISCC: 03201G/03101A000

NCAA

PREREQUISITE(S): Successful completion of Biology I and a “C” or better in Algebra I. or completion of and/or a “C” or better in Paced Algebra IA and Paced Algebra IB.

This is a college preparatory course designed to meet the needs of college-bound students. Memorization of symbols and formulas is required of students in Chemistry I. Problem solving requires that students work with percentages, decimals, ratios, scientific notation, and the dimensional analysis (factor label) method. Topics may include classes of matter, physical and chemical properties of matter, atomic structure and electron configuration, periodic properties of the elements, chemical names and formulas, reactions and equations, molecular geometry, stoichiometry, and gases. Laboratory experience is used to develop an understanding of the scientific process as well as develop an understanding of the chemical concepts covered.

Chemistry I – Honors (1/2 Credit per semester)

ISCC: 03201A/03102A000

NCAA

PREREQUISITE(S): Successful completion of Biology I and Algebra I with a “B” or better. Teacher recommendation, GPA, and/or standardized test scores.

This course is a rigorous, quantitative treatment of chemistry designed to meet the needs of students planning to enroll in AP Chemistry the following year. Students electing this course should show strong evidence of aptitude for and interest in science as well as demonstrate strong mathematical skills. Problem solving stresses throughout and students are required to work with algebraic equations, percentages, decimals, scientific notation, ratios, and dimensional analysis (factor label method). The course requires extensive memorization of chemical symbols and formulas. Topics are covered in more depth and with more mathematical sophistication than Chemistry I. Topics may include: the study of matter, atomic structure, inorganic nomenclature, types of chemical reactions, writing and balancing chemical equations, quantitative study of chemical reactions, oxidation and reduction, energy in chemical reactions, bonding and geometry of molecules, and periodic trends in the properties of chemical elements. Laboratory work is intended to develop an understanding of the scientific process as well as an understanding of the chemical concepts covered.

Chemistry II (1/2 Credit per semester)

ISCC: 03303G/03102A000

NCAA

PREREQUISITE(S): Successful completion of Chemistry I- Honors.

This course includes heat in chemical reactions, gases, liquids and solids, water quality testing, solutions, chemical equilibrium, solubility and precipitation, acids, bases, salts, reactions of acids and bases, thermodynamics, application of nuclear chemistry, and organic chemistry. Laboratory experience is used to develop an understanding of the scientific process and an understanding of the chemical concepts covered. Spring semester includes qualitative analysis lab experimentation.

Chemistry II – AP (1/2 Credit per semester)

ISCC: 03305A/03106A000



NCAA

PREREQUISITE(S): Successful completion of Chemistry I – Honors. Teacher recommendation, GPA, and/or standardized test scores.

AP Chemistry is a two-semester laboratory-based course. It requires proficient Algebra skills and some Geometry skills. The College Board sets the curriculum, which is equivalent to 1st and 2nd year general chemistry college courses. AP Chemistry demands many symbols, facts, equations, etc. be memorized. Critical thinking skills are necessary. Students in this course may pursue dual credit through Saint Louis University for CHEM 1110, 1115, 1120 and 1125 and/or take the AP Chemistry.

Environmental Science (1/2 Credit per semester)

ISCC: 03103G/03003A000

PREREQUISITE(S): Successful completion of Biology I

Environmental science is the study of how humans interact with the environment. It is a laboratory-based course. A major focus of the course is identifying and solving environmental problems in order to maintain a sustainable world. Throughout the year, the course emphasizes how human activity causes resource depletion, pollution and extinction. Students will study current events in environmental science related to these main themes.

NCAA

Forensic Science (1/2 Credit per semester)

ISCC: 03306G/03212A000

PREREQUISITE(S): Successful completion of Biology I and Chemistry I and teacher recommendation.

This is a yearlong course, involving all areas of science including biology, anatomy, chemistry, physics and earth science with an emphasis in complex reasoning and critical thinking. Students will study the different areas of crime solving. Students will study forensic history, physical evidence, DNA, documentation, fingerprinting, toxicology, trace evidence, serology, and various areas of biology. In addition, students must incorporate use of technology, communication skills, language arts, art, family and consumer science, mathematics, and social studies. This class is designed around authentic performance assessments with students working in teams to solve crimes using scientific knowledge and reasoning. There is a great deal of lab work, studying, and memorizing incorporated in this course. This curriculum is equivalent to 1st semester Forensic Science course in college. Students in this course may pursue dual credit through Saint Louis University for FRSC 2600.



NCAA

Geology (1/2 Credit)

ISCC: 03302G/03002A000

PREREQUISITE(S): Successful completion of a physical science course.

This course of study includes the structure and chemical make-up of the earth, history of the earth, mineral resources, mapping, map reading, mineral identification, weather, chemical testing, and meteorology. Lab experiences and “hands-on” activities, group projects, reports, and a newspaper project are utilized to convey the course objectives.

NCAA

Physical Science (1/2 Credit per semester)

ISCC: 03101G/03159A000

PREREQUISITE(S): None

This course is designed to meet the need of the physical sciences graduation requirement. The course of study will rely heavily on lab activities as well as lecture and abstract thinking. Items within the curriculum include motion, forces, momentum, energy, waves, electricity, elements and chemical reactions.

NCAA

Physics C - AP (1/2 Credit per semester)

ISCC: 03309A/03156A000

PREREQUISITE(S): Successful completion of Physics I and concurrently enrolled in Calculus. Teacher recommendation, GPA, and/or standardized test scores.

Physics C – AP is a two-semester laboratory-based course. This course is highly recommended for students considering a career in the hard sciences, engineering, math, or computer science. The curriculum is based on mechanics which is equivalent to the first semester of calculus-based physics at most universities. Topics covered include kinematics, Newton’s Laws of motion, work, energy and power, systems of particles and linear momentum, circular motion and rotation; and oscillations and gravitation. The use of calculus is prevalent throughout the whole course and a graphing calculator is required. Students in this course may pursue dual credit through Saint Louis University for PHYS 1610 and 1620 and/or take the AP Physics C Mechanics exam.



NCAA

Physics I (1/2 Credit per semester)

ISCC: 03308G/03151A000

PREREQUISITE(S): Successful completion of Chemistry I and concurrent enrollment in Algebra II.

Physics I is laboratory intensive. Students develop the concepts of physics from observations made during activities. It is recommended that students be very familiar with the techniques of Algebra I and Geometry. Topics include motion, forces, equilibrium, gravity, circular and harmonic motion, matter, energy, momentum, waves, sound, light, optics, electricity, magnetism and circuits. The use of algebra, geometry and trigonometry is prevalent in this course and a graphing calculator is required.



NCAA

Physics I –AP (1/2 Credit per semester)

ISCC: 03308A/03151A000



PREREQUISITE(S): Successful Completion of Chemistry I and concurrently enrolled in Pre-Calculus with Trig. teacher recommendation, GPA, and/or standardized test scores.

Physics I - AP is a laboratory-based program designed to meet the needs of all college bound students. This course is highly recommended for students considering a career in the hard sciences, engineering, and math or computer science. The topics covered include Newtonian mechanics (including rotational dynamics and angular momentum); work, energy and power, mechanical waves and sound. It will also introduce electric circuits. The content is developed through extensive hands-on inquiry labs. Mathematical techniques are used throughout the course and a graphing calculator is required. Students in this course may pursue dual credit through Saint Louis University for PHYS 1220 and/or take the AP Physics 1 exam.

Physics II - AP (1/2 Credit per semester)

ISCC: 03307A /03155A000



PREREQUISITE(S): Successful completion of Physics I and concurrently enrolled in Pre-Calculus with Trig. teacher recommendation, GPA, and/or standardized test scores.

Physics II - AP is the second year of the two-year program. This course continues where AP Physics I left off covering fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics. The content is developed through extensive hands-on inquiry labs. Mathematical techniques are used throughout the course and a graphing calculator is required. Students in this course may pursue dual credit through Saint Louis University for PHYS 1240 and/or take the AP Physics II exam.

Social Studies Department

9 th Grade	10 th Grade	11 th Grade	12 th Grade
	All Prior Plus: *Government *Current Events World Geography World Geography - Enriched World History World History – Enriched *International Governments	All Prior Plus: *Economics Leadership 101 *Psychology Psychology - AP *Sociology United States Government and Politics - AP United States History United States History - Enriched United States History – AP	All Prior Plus: Psychology - AP

Current Events (1/2 Credit)

ISCC: 04201G/04106A000



PREREQUISITE(S): None

Current Events is an engaging, student-focused class that centers on current local, state, national and international events. Students read the St. Louis Post-Dispatch daily and gain additional information from radio, TV, Internet, and other news sources. Current Events gives students the analytical tools needed to critically examine information, and enables students to better place themselves in the broader context of an interconnected world.

Economics (1/2 Credit)

ISCC: 04302G/04201A000



PREREQUISITE(S): None

Economics is a course that provides students with an overview of both macro- and micro-economics, with a focus on the U.S. economic system. Students will also learn basic personal finance concepts including participating in a “Stock Market Game” throughout the semester. Students will gain both academic and practical knowledge in this Economics class, with lessons and learning applicable both to ‘real life’ and to future courses that include content in this area.

Government (1/2 Credit)

ISCC: 04101G/04151A000



PREREQUISITE(S): None

U.S. Government—Comprehensive courses provide an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties

and interest groups, and the importance of civic participation in the democratic process. These courses may examine the structure and function of state and local governments and may cover certain economic and legal topics.

International Governments (1/2 Credit)

ISCC: 04204G/04154A000

NCAA

PREREQUISITE(S): “C” or better in Government

This comparative government course will offer student the chance to look at the governments of other countries in the world. We will study the role that government institutions, economic interests, political ideologies, and social identities play in shaping politics across countries and their interactions with the United States in this global environment. Two major objectives of the course will be to examine different types of political systems in the modern world (Great Britain, France, Germany, Japan, Russia, Mexico, China, and others) in terms of their structures and political processes and also analyze the makeup and structures of the United Nations, NATO, and the European Union.

Leadership 101 (1/2 Credit per semester)

ISCC: 04305G/22104A000

PREREQUISITE(S): Junior or Senior status; 3.0 Cumulative GPA or higher; Approval of Instructor

This year long course provides an opportunity to study, practice, and develop group and individual leadership and organizational skills. These skills include, but are not limited to the following topics or areas: leadership roles, interpersonal relations, project planning, goal setting, civic responsibility, decision making, problem solving, meeting skills, and communication.

Students enrolled in this course apply these skills in dealing with peers, school administration, and their community. This course takes a hands-on, lab-oriented approach to leadership by involving students in participatory leadership through project planning and implementation and is adaptable to a broad student population. There is a required 20-hours-per-semester community service requirement and a class service learning project assigned each semester.

Psychology (1/2 Credit)

ISCC: 04303G/04256A000

NCAA

PREREQUISITE(S): None

Psychology is a scientific study of human behavior and the factors, conditions, and experiences that affect and influence our activities. The topics examined in this course touch on all aspects of our lives. The goals of this study are to enable the student to describe, understand and explain the phenomena of human behavior. Psychology provides an introduction to the historical developments, terminology, and basic concepts and principles of psychology. The course also surveys the procedures and methods used by psychologists, investigates the physiology of our sensory system, the mechanics of perception, para-psychology analysis of human learning and memory and a brief study of "Developmental psychology" or the life cycle from infancy through gerontology. The study of Psychology includes the following topics: motivation and emotion, stages of consciousness including sleep, dreams, hypnosis, sensory deprivation, etc. Other topics examined are stress and anxiety theory, development of personality, abnormal behavior, mental illness, interpersonal relations, social contacts, and group dynamics.

Psychology - AP (1/2 Credit per semester)

ISCC: 04303A/04256A000

NCAA

PREREQUISITE(S): Junior or Senior Level Course, 3.5 Cumulative GPA or higher, a “C” in Biology or AP Biology, and approval of the counselor and the instructor

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles and phenomena associated with each of the major subfields within psychology. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior and social psychology. Throughout the course students employ psychological research methods including ethical considerations as they use the scientific method, analyze bias, evaluate claims and evidence and effectively communicate ideas.

Sociology (1/2 Credit)

ISCC: 04304G/04258A000

PREREQUISITE(S): None

NCAA

Sociology courses introduce students to the study of human behavior in society. These courses provide an overview of sociology, generally including (but not limited to) topics such as social institutions and norms, socialization and social change, and the relationships among individuals and groups in society.

United States Government and Politics – AP (1/2 Credit per semester)

ISCC: 04401A/04157A000

PREREQUISITE(S): Teacher recommendation, 3.5 GPA or above, and/or standardized test scores

NCAA

Advanced Placement Government and Politics is a rigorous, college level course of study that gives students an analytical perspective on government and politics in the United States. This course includes both the studies of general concepts used to interpret US politics and the analysis of specific examples. It is also designed to familiarize students with the various institutions, groups, beliefs, and ideas that constitute US politics as well as acquaint students with the variety of theoretical perspectives and explanations for various behavior outcomes. It is expected that students who complete this yearlong course of study will take the AP Government and Politics exam.

United States History (1/2 Credit per semester)

ISCC: 04301G/04103A000

PREREQUISITE(S): None

NCAA

U.S. History is a required course usually taken during the junior year. Semester 1 consists of the following: a review of U.S. History from 1700's through 1870's and a chronological study from 1898-1945. Semester 2 of U.S. History is a chronological examination of 1945 to present with emphasis on significant individuals, events, and issues that shaped this period of U.S. history.

United States History – Enriched (1/2 Credit per semester)

ISCC: 04301E/04103A000

PREREQUISITE(S): "A" or "B" in Government or recommendation from previous Social Studies teacher

NCAA

This course is intended for college bound juniors. Semester one includes the study of American history from 1865 to about 1930. Semester two includes the events from 1930 to the present. Special readings, research, writing assignments, various projects, and note taking are key elements of this course.

United States History – AP (1/2 Credit per semester)

ISCC: 04301A/04104A000

PREREQUISITE(S): Teacher recommendation, 3.5 GPA or above, and/or standardized test scores

NCAA

The AP United States History course is designed to expose students to a college level course ranging from the Discovery period through present day history with the opportunity to earn college credit while still in a high school setting. In this course we follow the three R's: Rigor, Relevance and Relationships. The goal of this course is to prepare you to take the AP United States History exam offered in May, hone your critical thinking skills, expand your writing abilities and further your analysis skills in the realm of reading. Your educational experience will rely on developmental lessons, daily homework, reading and writing assignments including DBQ's (Document Based Question) quizzes, multiple-choice and essay examinations.

World Geography (1/2 Credit per semester)

ISCC: 04202G/04001A000

PREREQUISITE(S): None

NCAA

World Geography is a course intended to give the student an overview of the physical and cultural aspects of today's modern world. Semester 1 of World Geography deals with basic map skills, the earth's atmosphere, land, oceans, and the resources available to humans. A study of North America, South America and Europe completes the first semester. Semester 2 of World Geography is a continuation of the study of the world's places. The focus is on the Middle East, Africa, Asia, and Australia. Rounding out our study of the world is a brief look at how the quality of human life has progressed and the challenges that still face humans in the future.

World Geography – Enriched (1/2 Credit per semester)

ISCC: 04202E/04001A000

PREREQUISITE(S): “A” or “B” in Government or recommendation from previous Social Studies teacher

NCAA

World Geography is a course intended to give the student an overview of the physical and cultural aspects of today’s modern world. World Geography deals with basic map skills, the earth’s atmosphere, land, oceans and the resources available to humans. A study of North America, South America and Europe completes the first semester. Semester 2 of World Geography is a continuation of the study of the world’s places. The focus is on the Middle East, Africa, Asia and Australia. Rounding out our study of the world is a brief look at how the quality of human life has progressed and the challenges that still face humans in the future. The course includes a greater emphasis on selected subjects using student research to discuss topics in greater detail. There will be oral and written projects throughout the course.

World History (1/2 Credit per semester)

ISCC: 04203G/04051A000

PREREQUISITE(S): None

NCAA

World History is a course that deals with the development of civilization from the prehistoric times to Industrial Revolution. The emphasis is on the major world cultures of the western world and their effect on our world today. Its objective is to help students understand the nature of the world, how it got that way, and how nations acquired their role in today’s world. Semester 1 includes pre-historic cultures, Mesopotamia, Egyptian Civilization, Greek and Roman cultures, and the early Middle Ages. Semester 2 includes the age the late Middle Ages, nation building in Europe, the Renaissance and Reformation periods, the Age of Absolute Monarchs, the Enlightenment, periods of Revolution in America and France and the Industrial Revolution.

World History – Enriched (1/2 Credit per semester)

ISCC: 04203E/04051A000

PREREQUISITE(S): “A” or “B” in Government or recommendation from previous Social Studies teacher

NCAA

Enriched World History is a course that traces world history from the origins of civilization to the Industrial Revolution. The emphasis is on the major world cultures of the western world and their effect on our world today. Its objective is to help students understand the nature of the world, how it got that way, and how nations acquired their role in today’s world. Semester 1 includes pre-historic cultures, Mesopotamia, Egyptian Civilization. Greek and Roman cultures and the early middle Ages. Semester 2 includes the late Middle Age, nation building in Europe, the Renaissance and Reformation periods, the Age of Absolute Monarchs, the Enlightenment, periods of Revolution in America and France, and the Industrial Revolution. The course includes a greater emphasis on selected subjects using student research to discuss topics in greater detail. There will be oral and written projects throughout the course. This course is highly recommended for college bound students.

Special Education Department

Adapted Physical Education (1/2 Credit per semester)

ISCC: 08101L/08007A000

PREREQUISITE(S): None

Adaptive Physical Education is designed to meet the special physical, emotional, and intellectual needs of the trainable student. Special emphasis is placed on improving both gross and fine motor skills through practice and repetition and utilizing those skills in game play.

Algebra I - Paced (1/2 Credit per semester, single hour or 1 credit per semester, two hours - a two-hour time slot)

ISCC: 02101L/ 02101B/02053A000

PREREQUISITE(S): None

In the first semester in a multi-part sequence of Algebra I and may fill a two-period time slot. It builds on previous Pre-Algebra concepts to develop the following Algebra topics: variables, functions, graphs, rational number calculations, properties of numbers, solving equations with one variable, percent and ratio equations, solving inequalities, interpreting graphs, linear equations and graphing, function rules, and word problems, solving systems of equations. A variety of instructional methods will be used. This course is aligned to Common Core standards. A graphing calculator will be used in the course. The second semester of Algebra I and may fill a two-period time slot. It follows Algebra IA-Paced. The semester will start with a quick review of linear equations and solving systems. Concepts covered in this course are the following: solving systems of inequalities,

exponents and exponential functions, polynomial operations, factoring polynomials, quadratic equations, radical expressions and equations, rational expressions and functions, and probability. A variety of instructional methods will be used. This course is aligned to Common Core standards. A graphing calculator will be used in the course.

Algebraic Concepts (1/2 Credit per semester)

ISCC: 02303L/02056A000

PREREQUISITE(S): Completion of Algebra, Paced or Algebra I and Geometry with Math Models or Geometry

This is a course covering typical Algebra II topics including absolute value equations and inequalities, linear systems, quadratic functions, polynomial functions, radical functions, rational exponents, exponential functions, logarithmic functions, rational functions, sequences and series, probability, trig functions and the unit circle. TI-84 graphing calculator recommended.

Applied Mathematics (1/2 Credit per semester)

ISCC: 02906D/02906L/02151A000

PREREQUISITE(S): None

Students will assess and review basic math skills. Throughout Applied Mathematics, students will review and demonstrate practical applications by utilizing mathematical reasoning and basic math skills involving problems with multiple step calculations. Students will learn to apply mathematics to solve unfamiliar problems. The students will receive instruction on when and how to use a scientific calculator and solve problems in real-world context (i.e. academic, vocational, technical, and personal).

Biology I (1/2 Credit per semester)

ISCC: 03102L/03102D/03102B/03051A000

PREREQUISITE(S): None

This is a lab-based course designed to meet the needs of students. The course of study during the course includes the structural and chemical make-up of living things, the interactions within an organism, interaction between organisms and its environment; and the continuity of life.

Computer Concepts (1/2 Credit)

ISCC: 10101L/10101D/10101B/10004A001/Y201

PREREQUISITE(S): None

This course is an orientation level course designed to familiarize the students with the computer and software programs typically used in education and business. The student will learn basic features using Google along with Microsoft Office in order to create and format documents.

Consumer Education (1/4 Credit)

ISCC: 10110L/10110B/10110D/22210A000

PREREQUISITE(S): None

This graduation required course provides practical, usable knowledge. Students will examine and research major buying decisions such as auto, housing, furniture, etc. They will learn how buying decisions affect the economy. Students will learn about their rights and responsibilities as consumers. This course provides training in insurance buying, credit buying, banking activities, investments, budgeting, taxes, and decision-making. Freshman/Sophomores enrolled for a 9-week session, partnered with Dr. Ed. Others will take this course for a full semester.

Consumer Math I (1/2 Credit per semester)

ISCC: 02904B/02904D/02904L/02157A000

PREREQUISITE(S): None

Students review basic math skills. Emphasis is placed on learning work and consumer related math skills. Students learn banking and budgeting skills, comparison-shopping, reading utility bills, using credit, and buying insurance.

Consumer Math II (1/2 Credit per semester)

ISCC: 02905D/02905L/02154A000

PREREQUISITE(S): None

This course is designed to help students gain proficiency with mathematics skills and consumer concepts, to encourage self-preparation, and enable students to transfer these concepts in tomorrow's world. It includes problem solving strategies and alternate methods of computation to solve a wide range of consumer problems as well as a solid basic skills support. Second semester students will discover and apply practical geometry that is used in the workplace and at home to help make connections from concrete example.

Co-Op (1.25 Credits per semester)

ISCC: 10401L/22153A001/Y401-Y402

PREREQUISITE(S): None

This program is a work-related experience for special education juniors and seniors. Students who participate in this program work for either the school district or in local businesses during the school day. The main objective of this course is to teach work related behaviors i.e. (appropriate dress, being on time, filling out timesheets, applications and specific job related skills). Students are paid a training wage and receive credit for this course. Upon completion of this program/class the Department of Rehabilitation will provide transition services for students enrolled in STEP. This service will help students make a smooth transition from school life to work life and independent living situations.

Current Events (1/2 Credit)

ISCC: 04201B/04201L/04106A000

PREREQUISITE(S): None

Current Events is a class which attempts to make students better informed about local, state, national, and international concerns. Students will read various news articles in class and use literacy skills to summarize and form opinions. They will be encouraged to gain additional current events information from radio and TV news.

English I (1/2 Credit per semester)

ISCC: 01101D/01101L/01101B/01001A000

PREREQUISITE(S): None

This course is designed to improve students' basic reading, writing, vocabulary and grammar skills. Reading activities may include contemporary and classic short stories, novels, and plays as well as current magazines, newspapers and other appropriate materials. Writing activities such as journal writing, personal narratives and paragraph length compositions may be used.

English II (1/2 Credit per semester)

ISCC: 01201D/01201L/01201B/01002A000

PREREQUISITE(S): None

This course is designed to improve students' basic reading, writing, grammar, vocabulary, and spelling skills. Emphasis is also placed on improving listening and study skills. Reading activities may include classic and contemporary short stories and plays, as well as selections from appropriate magazines and newspapers. Response to this reading is encouraged through discussion and various writing assignments. Basic language and writing skills will be developed in relation to student needs as indicated through actual writing activities.

English III (1/2 Credit per semester)

ISCC: 01301B/01003A000

PREREQUISITE(S): None

This course is designed to further develop a student's ability to read, comprehend, interpret and evaluate written material. Novels, plays, short stories, and poetry will be read with the intent of increasing student's appreciation of various forms of literature. The other emphasis in this course is on vocabulary development, writing skills, and listening skills. This class will provide a review of basic grammar, emphasizing correct usage, punctuation, capitalization, sentence structure, vocabulary development and spelling. Students will apply these learned skills in writing narratives, description and activities will stress communicating well organized, clearly stated ideas in a variety of practice situations.

Future Planning and Exploration (1/2 Credit)

ISCC: 10104L/22151A000

PREREQUISITE(S): None

This course provides students an opportunity to explore post-secondary training and career options. Interest and aptitude tests

will be used to match students with a career cluster. Students will explore education and training options that are required for the careers of interest. Discussions will include agencies and support services available to students with disabilities in post-secondary training, employment and independent living. Students will leave the class with a portfolio including their post-secondary plan for training, employment and independent living.

Geometry with Mathematical Models (1/2 Credit per semester)

ISCC: 02301L/02301B/02072A000

PREREQUISITE(S): None

This course presents the concepts of sampling and reasoning, models variation and growth, linear systems and matrices, graphs, coordinate geometry and quadrilaterals, counting strategies, statistics and binomials, logic and proofs, and similar and congruent triangles, introduction to trigonometry. Integrated with these concepts are some aspects of basic geometry and review topics of algebra. Standardized test-taking strategies will also be emphasized throughout the course.

Government (1/2 Credit)

ISCC: 02906D/02906L/02151A000

PREREQUISITE(S): None

This is a one-semester course surveying the structure and political processes of the federal government and state governments. This course will allow an introductory involvement to politics dealing with our federal and state governments. "The topics will include a historical overview of the United States road to independence, the contents of the United States Constitution, as well as the Illinois State Constitution." The last three weeks will focus on the United States and its intervention in world affairs. A student must pass the state and federal constitution exams in order to receive a passing grade in this course.

Health (1/2 Credit)

ISCC: 08201L/08201D/08051A000

PREREQUISITE(S): None

Basic Health is a general course with an emphasis on developing a healthy lifestyle. Students will cover topics such as the body systems, nutrition, chemical abuse, and human sexuality. This course fulfills the health requirement.

Learning Strategies (1/2 Credit per semester)

ISCC: 11103L/11103G/11103S/22003A000

PREREQUISITE(S): None

This course will focus on the following areas: organization skills, note-taking, study skills, test-taking strategies and areas of deficiency. The course will also reinforce social decision-making skills and the generalizing of these skills to the classroom and other situations of interaction.

Mythology (1/2 Credit)

ISCC: 01310L/01099A000

PREREQUISITE(S): None

This course is an introduction to classical Greek mythology that incorporates high interest in reading, writing and discussion within the context of learning about the major gods, goddesses and heroes, together with their associated stories. Particular attention will be given to the purpose of the myth and what it seeks to achieve.

Life Skills Transition Program (1/2 Credit per semester)

ISCC: 11102D/22153A000

PREREQUISITE(S): 12th grade (age 18-21)

The Post-Secondary Life Skills Transition Program is a block class designed to teach independent living and vocational skills to students 18-22 in the Life Skills special education Program. The program includes community-based learning opportunities in a variety of community settings. The goal of the program is to help students become as independent as possible while building community-based connections.

Personal Skills (1/2 Credit per semester)

ISCC: 11101B/11101D/22208A000

PREREQUISITE(S): None

Students are taught ways to deal appropriately with everyday situations in school, at home, and at work. Topics covered may include maturity, values, goals, decision-making, self-concept, and stress management. Second semester topics include assertive behavior, communication skills, interpersonal relationships, and family groups.

Physical Science (1/2 Credit per semester)

ISCC: 03101L/03101D/03101B/03159A000

PREREQUISITE(S): None

This course of study will include a semester of chemistry and a semester of physics relying on lab activities as well as lecture and abstract thinking. Items within the curriculum include phases of matter, bonding, chemical reactions, atoms, force, motion, energy, and power.

Senior Composition & Literature (1/2 Credit per semester)

ISCC: 01401D/01401L/01401B/01004A000

PREREQUISITE(S): None

Reading selections and classroom activities are chosen to meet the interests and needs of the older students while enabling them to master literacy skills. This course will expand literary understanding and writing/composition skills. Additionally, this course includes directed instruction in the following employment/college related skill areas: career/college exploration, utilizing employment resources, completing job and college applications, and writing resumes. Students will also complete a senior social issue project.

United States History (1/2 Credit per semester)

ISCC: 04301L/04301D/04301B/04103A000

PREREQUISITE(S): None

This course is a chronological study of the people and events that have shaped us from the Industrial Revolution to current day America.

World Geography (1/2 Credit per semester)

ISCC: 04202L/04202D/04202B/04001A000

PREREQUISITE(S): None

World Geography is a course designed to give the student an overview of the physical and cultural aspects of today's world. Semester 1 deals with basic map skills, the earth's atmosphere, land, oceans and resources available to humans. A study of North and South America completes the first semester. Semester 2 is a continuation of the study of the world. The focus is on Europe, Russia, Middle East, Africa, Asia and Australia.

Vocational/CAVC

9 th Grade	10 th Grade	11 th Grade	12 th Grade
None	None	Auto Body I (09306V) Automotive Mechanical Technology I (09307V) Building Trades I (09310V) Clinical Health Occupations (07305V) Cosmetology I (07303V) Criminal Justice I (07302V) Cyber Security (10303V) Electronics I (09302V) Food Service I (07307V) Intro to Early Childhood Education (07301V) Precision Machining Technology I (09308V) Web and Graphics Design (10302V) Welding Technology I (09304V)	All Prior Plus: Auto Body II (09406V) Automotive Mechanical Technology II (09407V) Building Trades II (09410V) Cosmetology II (07403V) Criminal Justice II (07402V) Early Childhood Education (07401V) Electronics II (09402V) Food Service II (07407V) Precision Machining Technology II (09408V) Welding Technology II (09404V)

Auto Body I (1.5 Credits per semester)

ISCC: 09306V/20116A001/U309-U310

PREREQUISITE(S): Intro to Metals Preferred

Instruction will emphasize safety principles and practices including hazardous materials, auto body nomenclature, function of individual components, the use of parts manuals activities related to writing and calculating damage estimates, the identification of replacement

parts including the use of auto body fillers, the use of plastic/glass fillers and special repair tools, refinishing problems and paint preparation procedures. This course provides learning experiences designed to allow students to gain knowledge and skills in repairing automotive bodies and fenders. Planned learning activities in this course are balanced to allow students to become knowledgeable in the fundamental aspects of auto body repair methods and techniques, and to develop practical skills in the basic operations required to prepare the automobile for final paint application. Instruction emphasizes safety principles and practices, hazardous materials, auto body nomenclature, function of individual components, the use of parts manuals, the identification of replacement parts, the use of auto body fillers, the use of plastic/glass fillers and special body repair tools, refinishing problems, and paint preparation procedures. Practical activities relate to experiences in writing and calculating damage estimates, removing and installing body panels, trim, and glass; straightening by using hammers, bucks, and jacks; and smoothing by filing, grinding, and using fillers. Students also learn to prime the area to be painted and prepare the surface for final paint application. These experiences and skills are related to metal, fiberglass, or urethane components. This is a dual credit course, which provides students the opportunity to receive college credit for successful completion of this course.

Auto Body II (1.5 Credits per semester)

ISCC: 09406V/20116A002/U311-U312

PREREQUISITE(S): Auto Body I

This training level course provides learning experiences designed to further enhance the students' skills in performing more advanced tasks related to automotive body repair. Employability skills, interpersonal relationships, organization and operation of a business and advanced educational opportunities will be covered in this course. Emphasis in this training level course is placed on the identification and correction of imperfections and finish buffing of the final coat. Student practical activities related to experiences in estimating collision damage costs, preparing customer bills, removing and replacing glass surfaces, selecting paints, repainting minor and major damages, repainting total car body, post-paint cleanup and post-paint polishing. This course provides learning experiences designed to further enhance the students' skills in performing more advanced tasks related to automotive body and fender repair. Learning activities in this course emphasize the successful application of the final paint coat and the preparation that precedes it. Emphasis is also placed upon the 286 identification and correction of imperfections and finish buffing of the final coat. Student learning activities include instruction in safety principles and practices, hazardous materials, types and qualities of paints, colors, and refinishing problems; glass standards and installation, special alignment techniques, customer relations, damage estimating, and insurance adjustments. Students will learn employability skills interpersonal relationships and operation and ownership of a business. This is a dual credit course which provides students the opportunity to receive college credit for successful completion of this course.

Automotive Mechanical Technology I (1.5 Credits per semester)

ISCC: 09307V/20104A001/T309-T310

PREREQUISITE(S): Intro to Metals Preferred

Do you like to work with your hands? Do you want to learn how everything works? Do you like lots of tools? If so, this is the class for you. This class will cover the introduction to the automotive industry. First, the class will cover introductory levels beginning with shop safety practices and automotive tool use. The students will learn all maintenance aspects of modern vehicles. The cars we work on are school cars, student cars, student friend's cars. Brakes, suspension, steering and alignment will be the first systems covered. Next, the students are required to disassemble an engine completely. Students will inspect the engine, measure with precision tools and machine as needed. When the engine is assembled the fuel and ignition systems will be installed and the engine is test ran on a stand. The students will learn all procedures involving an engine re-build. They will be able to apply their skills to diagnose engine problems. This course introduces students to the basic skills needed to inspect, maintain, and repair automobiles and light trucks that run on gasoline, electricity, or alternative fuels. Instructional units include engine performance, automotive electrical system, integrated computer systems, lubrication, exhaust and emission control, steering and suspension, fuel systems, cooling system, braking, and power train.

Automotive Mechanical Technology II (1.5 Credits per semester)

ISCC: 09407V/20104A002/T311-T312

PREREQUISITE(S): Automotive Mechanical Technology I

The goal of this class is to bring all prior learned knowledge together turning it into diagnostic skills. This is a technical class that covers all components of a vehicle. Electrical systems will be covered, including advanced fuel, ignition and computer systems. Many faults are installed in school cars and the students will diagnose these problems. Students will use modern testing equipment to diagnose problems. Next, the class covers transmissions, four wheel drive and differentials. The students will spend much of their time in a lab disassembling and re-assembling manual and automatic transmissions. Students will work on a wide variety of problems and spend a lot of time working on live problems brought into the shop. Students will also learn the business part of the automotive industry including billing and customer service. This course is a continuation of and builds on the skills and concepts introduced in Automotive Technician I. This course includes instructional units in alternative fuel systems, computerized diagnostics, new vehicle servicing, automotive heating and air conditioning, transmissions, testing and diagnostics, drive train and overall automobile performance.

Building Trades I (1.5 Credits per semester)

ISCC: 09310V/17002A0001

PREREQUISITE(S): None



This course is designed to provide the student with many learning experiences that will allow students to become knowledgeable of fundamental principles and methods and to develop technical skills related to house construction with special emphasis placed on craftsmanship. Projects include all phases of house construction. The students are given the opportunity to receive thorough training on all the various hand and power tools used in the trade. Instruction includes safety principles and practices; recognition of standard lumber sizes; foundation layout methods; house framing; insulating methods and materials; dry wall applications and finishing; observe and demonstrate installation of plumbing fixtures/systems; observe and discuss installation of electrical fixtures. This course provides experiences related to the erection, installation, and maintenance of residential buildings and related fixtures. Planned learning activities allow students to understand fundamental principles and methods, and develop technical skills related to masonry, carpentry, and finish work. Instruction includes safety principles and practices, recognition of standard lumber sizes, foundation layout methods, building concepts and procedures, local, state, and national codes, cost estimating, and blueprint reading. The first year is spent in the building trade shop learning the basis of home construction. All learning experiences are designed to allow the students to acquire job entry skills and knowledge. This is a dual credit course, which provides students the opportunity to receive college credit for successful completion of this course.

Building Trades II (1.5 Credits per semester)

ISCC: 09410V/17002A002

PREREQUISITE(S): Building Trades I



This course is a continuation of Building Trades I and will build on the skills learned during Building Trades I, designed to provide the student with many learning experiences that will allow students to become knowledgeable of fundamental principles and methods and to develop technical skills related to house construction with special emphasis placed on craftsmanship. Projects include all phases of house construction. This course provides learning experiences related to the erection, installation, maintenance, and repair of building structures and related utilities. Student technical skill experiences include instruction and activities in safety principles and practices, performing maintenance control functions, joining pipes, building water distribution lines and drains, installing and maintaining plumbing fixtures and systems, installing switch and outlet boxes, light fixtures, service entrances, roughing in and trimming out electrical devices and appliances, preparing foundations and footings, constructing residential chimneys and fireplaces, laying, jointing and pointing brick, and advanced building and construction methods and codes. All learning experiences are designed to allow the student to acquire job-entry skills and knowledge. All learning experiences are designed to allow the students to acquire job entry skills and knowledge. This is a dual credit course which provides students the opportunity to receive college credit for successful completion of this course.

Clinical Health Occupations (1.5 Credits per semester)

ISCC: 07305V/14051A001/J305-J306

PREREQUISITE(S): None



The course is composed of a combination of subject matter and experiences designed to perform tasks of individuals receiving nursing services. The student learns those competencies needed to perform as a nurse assistant under the direction of the registered nurse. The units of instruction should include the role of the nurse assistant while covering general health care topics; medical terminology; patients /clients and their environment; special feeding techniques; psychological support and, in long term and terminal illness, death and dying (e.g., chronically ill, children, new mothers, and so on); and all other basic nursing skills. Topics covered typically include normal growth and development; feeding, transporting patients, hygiene, and disease prevention; basic pharmacology; first aid and CPR; observing and reporting; care of equipment and supplies; doctor, nurse, and patient relationships and roles; procedure policies; medical and professional ethics; and care of various kinds of patients. In order to have an approved nurse assistant program (one in which the students are eligible to sit for the certifying exam) the program must be approved by the Illinois Department of Public Health. Psychomotor skills will also include maintaining a safe environment, bed-making, patient personal care, vital signs, and hand washing. A clinical practice requirement of forty hours at a local nursing home is a part of the student requirement. This course is approved by the Illinois Department of Public Health as a Certified Nursing Assistant Training Program. Students qualified may take the certification test for nurse assisting at the end of the school year. Student will also have the opportunity to earn CPR certification while enrolled in this program. This is a dual credit course, which provides student the opportunity to receive college credit for successful completion of this course. Dual credit from Southwestern Illinois College is earned for Nurse Assisting (7 credit hours) and Medical Terminology (3 credit hours) for a total of 10 credit hours.

Cosmetology I (2 Credits per semester)

ISCC: 07303V/19101A001

PREREQUISITE(S): None

Cosmetology 1 introduces students to the requirements to become a licensed cosmetologist. It offers students instruction in both theory and practical application in the following areas: tools and their use, shampoo, understanding chemicals and use, types of hair, sanitation, hygiene, skin diseases and conditions, anatomy and physiology, electricity, ethics, nail technology and esthetics as they relate to the Barber, Cosmetology, Esthetics, and Nail Technology Act. Knowledge, skills and activities completed in this course will help prepare students for Cosmetology 2, while earning hours towards licensure. All hours, grades and classes accumulated during the student's time in CAVC Cosmetology courses accredited towards the completion of the 1,500 clock hours required by the Illinois Department of Financial and Professional Regulation. The Cosmetology program must be approved and licensed by the Illinois Department of Financial and Professional Regulations, Division of Professional Regulation and meet all state and federal regulations. This class meets off campus at Precision Point School of Cosmetology in Fairview Heights IL. Students must be able to provide their own transportation. Classes will meet beyond the school day (12:00 to 4:00) as well as one additional Saturday per month. See CAVC Director for more information.

Cosmetology II (2 Credits per semester)

ISCC: 07403V/19101A002

PREREQUISITE(S): "C" or better in Cosmetology I

This course offers students continued instruction in both theory and practical application. All hours, grades, and classes accumulated during the student's time in CAVC Cosmetology courses are credited towards the completion of the 1,500 clock hours required by the Illinois Department of Financial and Professional Regulation. The Cosmetology 2 program must be approved and licensed by the Illinois Department of Financial and Professional Regulations, Division of Professional Regulation and meet all state and federal regulations. This class meets off campus at Precision Point School of Cosmetology in Fairview Heights IL. Students must be able to provide their own transportation. Classes will meet beyond the school day (12:00 to 4:00) as well as one additional Saturday per month. See CAVC Director for more information.

Criminal Justice I (1.5 Credits per semester)

ISCC: 07302V/15051A003/L320-L321

PREREQUISITE(S): None

This course is designed to prepare students to enter the fields of law enforcement and the criminal justice system. Instruction includes the history of law enforcement and the legal system, report writing and recordkeeping, criminal investigation techniques, and routine police procedures. Students learn how to use communications and dispatch equipment, perform proper search and seizure techniques, conduct basic criminal investigations, and execute correct pursuit and arrest procedures. Instruction also includes patrolling techniques, private security operations, traffic investigations, and community relations. Students will have an opportunity to study the criminal justice system and its three major components-policing, courts and corrections. This course includes history and philosophy, as well as current trends in the administration of justice in a democratic society. Students will be introduced to patrolling techniques, communication skills used in the field, i.e. communicating with the public, radio communications, reporting and records. The students will have an opportunity to observe police demonstrations and listen to guest speakers. Employability skills including reading, writing, understanding law related material and math for law enforcement personnel; police safety; developing pride and trust, team work, responsibility and dependability.



Criminal Justice II (1.5 Credits per semester)

ISCC: 07402V/15051A004/L323-L324

PREREQUISITE(S): Criminal Justice I

This course provides experiences for students in basic investigative techniques for crimes against people and property. Learning activities emphasize the development of more advanced knowledge and skill than those provided in Law Enforcement I. Units of instruction include how to conduct a preliminary investigation and protect a crime scene, collect and preserve physical evidence including dusting latent prints, casting, fingerprint classification, and the use of portable crime laboratory equipment. Students learn how to conduct interviews, complete police reports, use police equipment, and testify in court. Instruction also includes traffic control, personal security, and law enforcement administration. This course is designed to prepare students to work in the field of law enforcement or any related criminal justice area. Students will conduct a critical review of recent research on police management, deployment of personnel and services. This study includes questioning procedures, legal rights and routine police procedures. Police integrity and ethics, as well as "hard choice" issues concerning police discretion, morality and legality in police methods is stressed. Students will be provided the opportunity to participate in an internship for the purpose of career exploration in the criminal justice system. Students will study search and custody procedures as well as have police demonstrations, tour and local shadowing. This course will also include employability skills such as reading, writing and understanding law related materials, math for law enforcement personnel, police safety concerns, developing pride and trust, team work, responsibility and dependability, using appropriate terminology, using equipment correctly and complying with state and federal regulations. This is a dual credit course, which provides students the opportunity to receive college credit for successful completion of this course.



Cyber Security (1.5 Credits per semester)

ISCC: 10303V/10252A001

PREREQUISITE(S): None



This cybersecurity course will introduce students to the concepts of cybersecurity. This course will provide students with the knowledge and skills to assess cyber risks to computers, networks, and software programs. Students will learn how to create solutions to mitigate cybersecurity risks. This course will also cover the legal environment and ethical computing behavior related to cybersecurity.

Early Childhood Education (1.5 Credits per semester)

ISCC: 07401V/19055A001/H351-H352

PREREQUISITE(S): Introduction to Early Childhood Education



This course is designed for students who are motivated and have a desire to work with young children. Students will explore the History of Education, laws and guidelines of teaching children with special needs, and various Child Development theories. This is a preparatory course for students who may be interested in elementary teaching fields, social work, or other child care or service-oriented occupations. Students will have the opportunity to earn CPR certification while enrolled in the program. Emphasis is placed on career opportunities, communication skills, human relations, and the needs of children within the school setting. Students enrolled in the Early Childhood Education class will be provided with a preschool/toddler laboratory or elementary school experience on a weekly basis. This class will focus on improving lesson plans for the preschool children, as well as, develop their skills working with children. This is a dual credit course, which provides students the opportunity to earn 3.0 college credits for successful completion of this course through Southwestern Illinois College. In addition to the SWIC credit hours, students can earn the Early Childhood Credential upon completion of this course. This course emphasizes the skills associated with the administration of the infant, child and adult care facilities and education centers. Skills, strategies and issues related to caring for infants and special needs children and adults, where applicable, are included. Emphasis is placed on career opportunities, communication skills, human relations and the service needs of clients in the occupational area. The major learning experiences will involve actual work with children and /or adults in facilities simulating those found in the workplace/industry, and discussion of the situations and problems that arise during the learning experiences. State licensing and certification requirements and regulations related to all -aspects of care and education are stressed throughout the course. Careers in the occupational area will be investigated, including entrepreneurship. Students earn 3.0 credit hours through Southwestern Illinois College by completing all 4 semesters of this course according to the dual-credit guidelines.

Electronics I (1.5 Credits per semester)

ISCC: 09302V/17104A001/L313-L314

PREREQUISITE(S): None



The purpose of this course is to provide the students with a broad background in the theory of electronics and its applications within the electronics field. Emphasis is placed upon 1) applying theory to practical laboratory learning experience and safety principles and practices 2) constructing experimental circuits. Activities include experience in troubleshooting and repairing selected components found in circuit boards. 3) Informing students about the variety of specialty areas, categories of work relevant to the field and equipment requirements and opportunities that lead to successful employment. 4) Provide the opportunity for students to become skilled in using the common test equipment and tools used to construct, install, measure and repair electrical wiring and cabling, and electrical/electronic systems and equipment. This is a dual credit course, which provides students the opportunity to receive college credit for successful completion of this course. A strong math background is essential for the successful completion of this course. This course introduces students to the skills needed to service, repair, and replace a wide range of equipment associated with automated or instrument-controlled manufacturing processes. Planned learning activities in this course allow students to become more knowledgeable in the fundamental principles and theories of electrical/electronic and hydraulic/pneumatic equipment as applied to instrumentation devices and digitally encoded radio equipment. Instruction also includes safety principles and practices, semi-conductors and transistor theory, 244 electrical parameters and circuits, electronic component function and identification, and the use and care of related hand tools, power tools, and test equipment.

Electronics II (1.5 Credits per semester)

ISCC: 09402V/17104A002/L315-L316

PREREQUISITE(S): Electronics I



The purpose of this course is to provide a thorough, up-to-date coverage of digital fundamentals-from basic concepts to microprocessors with emphasis on application using real devices and on troubleshooting. The concepts and design of computer circuitry (using Karnaugh maps) including binary number systems and Boolean Algebra will be explored as will the study of adders, counters, shift registers and logic gate families with the design A/D and D/A converters. This gives the student the problem-solving experience they'll need to compete in the professional arena. This is a dual credit course, which provides students the opportunity to receive college credit for successful completion of this course. This course provides planned learning activities designed to allow students to gain knowledge and

skills in testing, maintaining, and repairing electronic equipment and systems used in the manufacturing industry. Learning activities in this course emphasize the development of more advanced knowledge and skills than those provided in Industrial Electronics I. Skills introduced in this course include instruction in the interpretation of technical sketches, schematics, and circuit diagrams. Additional units of instruction include the identification and causes of equipment malfunctions, the repair and replacement of parts and equipment, the care and use of standard tools, equipment, and specialized instrumentation testing devices.

Food Service I (1.5 Credits per semester)

ISCC: 07307V/16052A001/H324-H325

PREREQUISITE(S): None



This course provides terminology, culinary math, and practical experiences needed for the development of culinary competencies and workplace skills. Safety and sanitation instruction and classroom application will prepare students for an industry recognized sanitation exam. Classroom experiences will develop skills to work in the front of the house, back of the house, and work stations. Additional content may include: event planning, customer service and relations, food service styles, baking and pastry arts, hors d'oeuvres, and breakfast cookery. Students will be provided opportunity training experiences on commercial equipment. This course is designed to provide students interested in a career in food service with the information and practical experiences needed for the development of food service-related competencies. The students receive laboratory experiences using commercial food service equipment, preparing all content may include: event planning, customer service and relations, food service styles, baking and pastry arts, hors d'oeuvres, and breakfast cookery. Students will be provided opportunity training experiences on commercial equipment. This course is designed to provide students interested in a career in food service with the information and practical experiences needed for the development of food service-related competencies. The students receive laboratory experiences using commercial food service equipment, preparing food in quantity and food safety. Emphasis is placed on catering large and small functions and work experiences. Students will gain experience in all types of food service work by the actual operation of a quick service restaurant in areas of fry cook, wait person (server), cashier, and quantity food preparation. The history and overview of the restaurant world is discussed. The second semester continues the learning begun in the first semester course. Students will continue to plan meals, prepare foods in quantity and operate a quick service restaurant (in house). Safety and sanitation are continuously emphasized as part of the operation of a food service facility. Additional information regarding career opportunities in the food service industry is included. Training experiences involve equipment and facilities which simulate those found in business and industry. Emphasis is placed on nutrition, catering large and small functions, cooking foods from different ethnic groups (cuisines) such as Chinese, Italian, Mexican and American; and work experiences. This is a dual credit course, which provides students the opportunity to receive college credit for successful completion of this course.

Food Service II (1.5 Credits per semester)

ISCC: 07407V/16055A001/H236-H327

PREREQUISITE(S): Food Service I; a "B" or better preferred



This course provides advanced training in food service production and service. Information and experience is provided in management skills and personnel management. Second year students are placed in positions of leadership and training and have extra responsibilities beyond those of the first-year students. In the second semester, students undertake the management responsibilities of kitchen supervisor, dining supervisor, storeroom supervisor, menu planner, buyer, and head chef. Continued operation of the quick service restaurant in the management roles provides students opportunities to "try on" these occupations. This course places special emphasis for students to develop operational management skills -including design and organization of food service systems in a variety of settings, human relations, and personnel training and supervision. Additional topics include: food cost accounting; taking inventory; advertising; monitoring consumer and industry trends; and individualized mastery of culinary techniques. Training experiences involve equipment and facilities simulating those found in business and industry. Students earn 3.0 credit hours through Southwestern Illinois College.

Introduction to Early Childhood Education (1.5 Credits per semester)

ISCC: 07301V/19054A001/H349-H350

PREREQUISITE(S): None



This course is designed for students who are motivated, and have a desire to work with young children. Students enrolled in Introduction to Early Childhood Education will be provided with a preschool and or toddler laboratory experience on a weekly basis. This class will focus on experiences that involve students learning age appropriate activities and lesson planning for the preschool children. Also, students will engage in units of studies that focus on development, age appropriate lessons and special topics such as health, safety and nutrition, child abuse prevention and reporting for an early childhood program. State and local regulations governing care centers are covered in depth. This is a dual credit course, which provides students the opportunity to earn 3.0 college credits for successful completion of this course through SWIC. In addition to SWIC credit hours, students can earn the Early Childhood Credential upon completion of this course. This course provides students with information and practical experiences needed for the development of competencies related to child /adult care, day care, and other education services occupations. Laboratory experiences, either in a school - based or worksite learning facility, are included throughout the class. Students meet standards in developing programs and assisting with children's and/or adult's activities. Classroom study includes the philosophy and management of care centers and the state and local

regulations governing care-giving operations. The learning experiences will involve working with children /adults simulating those found in business and industry, as well as preparation for developing and facilitating these activities.

Precision Machining Technology I (1.5 Credits per semester)

ISCC: 09308V/13203A001/M305-M306

PREREQUISITE(S): None



This course will place a strong emphasis on advanced layout, measurements, basic bench procedures and basic machine operation. CNC programming and machining will be introduced with an emphasis in manual G and M code programming. Job opportunities and work-related skills needed in the machining field are taught throughout the course of this class. This course also includes a sequence of tasks planned to provide educational experiences that will enable students to develop advanced level competencies needed for employment and/or continual education. This includes advanced processes on the lathe, milling machine and surface grinder. This course will be offered under the dual credit agreement with SWIC offering students the opportunity to earn college credit.

Precision Machining Technology II (1.5 Credits per semester)

ISCC: 09408V/13203A002/M307-M308

PREREQUISITE(S): Precision Machining Technology I

This course is a continuation of Precision Machining I. Advanced layout, machining practices, measurements, metallurgy and heat treatment of tool steels will be introduced. A strong emphasis on CNC advanced manual programming and machining will be taught. Master cam computer programming will also be introduced during this course as well. The art of tool making, supervisory functions and advanced machine set-ups will be introduced during this class. Installation, maintenance and repair of the shop equipment will be covered as well as a continual shop housekeeping and record process. This course is also a part of the dual credit agreement with SWIC offering college to high school students.

Web and Graphic Design (1.5 Credits per semester)

ISCC: 10302V/10201A001/B363-B364

PREREQUISITE(S): Computer Apps Preferred



This course will enhance student skills in multimedia design. The course used Adobe Creative Cloud. This is a dual-credit course with SWIC. Students receive a total of nine credit hours: CIS 171-3, CIS 172-3 credits and CIS 173 -3 credits.

Welding Technology I (1.5 Credits per semester)

ISCC: 09304V/13207A001/W313-W314

PREREQUISITE(S): None



This course is a planned learning experience providing the student with the opportunity to develop welding skills and gain knowledge in metal joining known as fusion. Students receive training for the safe use of oxyacetylene welding and arc welding processes that include SMAW, "stick welding" GMAW, "mig welding" and GTAW, "TIGwelding". Welding skills are developed by practice on butt joints, lap joints and T-joints in the flat and horizontal welding positions. Cutting skills will be developed by practicing metal cutting with plasma arc, oxyacetylene torch and automated equipment such as a Plasma Cam. Students are introduced to Blueprint reading and layout to enhance their potential for success in this very interesting and rewarding field of work/learning. This is a dual credit course, which provides students with the opportunity to receive six (6) college credits for successful completion of this course through SWIC.

Welding Technology II (1.5 Credits per semester)

ISCC: 09404V/13207A002/W315-W316

PREREQUISITE(S): Welding Technology I



This course will build upon the basic fundamentals learned in Vocational Welding Technology I and will introduce the student to more advanced techniques, principles, applications and procedures. By extensive hands on experience, students will acquire an ability to make welds in all positions on various weld joints and develop appreciation of craftsmanship. The aim of this course will be to prepare the student to meet all requirements to begin college at an advanced level and much closer to meeting the demands of modern industry. Welding processes include, SMAW, GMAW, FCAW, GTAW and with a focus on fabrication to AWS D1.1 welding code. Additional training will include nondestructive and destructive testing of welds, safe operation of the Iron Worker, (shearing, punching, notching and forming of metal and blueprint reading) and programing and operation of the Plasma Cam for automated cutting. This is a dual credit course, which provides students the opportunity to receive college credit for successful completion of this course. Students earn five (5) college credits from SWIC at no cost to the student.

World Language Department

9 th Grade	10 th Grade	11 th Grade	12 th Grade
French I German I Latin I Spanish I Spanish II for Heritage Speakers Any World Language level II after passing required proficiency assessment	All Prior Plus: French II German II Latin II Spanish II Any World Language level III after successful completion of level II language	All Prior Plus: French III -Enriched German III - Enriched Intermediate Latin Poetry - Enriched Spanish III – Enriched Any World Language level IV after successful completion of level III language and meeting pre-requisite(s)	All Prior Plus: French IV - Enriched German IV - Enriched Intermediate Latin Prose - Enriched Spanish IV - Enriched Any World Language Level V – Enriched after successful completion of level IV language and meeting pre-requisite(s)

French I (1/2 Credit per semester)

ISCC: 06110G/06121A000

NCAA

PREREQUISITE(S): None; Proficiency exam available per teacher discretion for students with previous French language experience

French I courses emphasize acquisition of basic grammar, vocabulary, syntax, and spoken accent through storytelling and reading. Students will learn to read, write, speak and understand the language at a basic level using customary courtesies and conventions. French culture is introduced through the art, customs, and history of French-speaking people.

French II (1/2 Credit per semester)

ISCC: 06210G/06122A000

NCAA

PREREQUISITE(S): French I with a passing grade

French II courses build upon skills developed in French I, extending students' ability to understand and express themselves in French and increasing their vocabulary. Through storytelling and reading, students continue to acquire the ability to write, read, speak and understand the language at a more advanced level. Students explore the customs, history, and art forms of French-speaking people to deepen their understanding of the cultures.

French III – Enriched (1/2 Credit per semester)

ISCC: 06310E/06123A000

NCAA

PREREQUISITE(S): French II with a second semester grade of “C” or better

French III courses focus on having students express more advanced concepts, both verbally and in writing while showing spontaneity. Students will increase skills in discourse, writing of passages, and rules of grammar. Through storytelling and reading, students will attain more facility and faster understanding when listening to the language spoken at normal rates, be able to paraphrase or summarize written passages, and converse easily within limited situations. Students will continue exploring the art, literature, customs, and history of French-speaking people.

French IV – Enriched (1/2 Credit per semester)

ISCC: 06410E/06124A000

NCAA

PREREQUISITE(S): French III with a second semester grade of “C” or better

French IV courses focus on advancing students' skills and abilities to write, read, speak, and understand the French language through reading and storytelling, so that they can maintain conversations with sufficient vocabulary and an acceptable accent. Students will work towards understanding 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.

French V Independent Study –Enriched (1/2 Credit per semester)

ISCC: 06510E/06125A000

PREREQUISITE(S): “A” or “B” in French IV – Enriched and teacher recommendation

This course is designed for French students who began their high school career with previous skills in the world Language. Throughout this class, students will be required to read and analyze advanced level literature and/or authentic texts independently in the world Language. Students will be placed in a Level 1 or Level 2 world Language class to serve as a linguistic mentor to the student in those classes. They will be expected to assist the classroom teacher, tutor fellow students, etc. Also, students will be expected to make presentations and/or teach topics as selected by the teacher as they refine their speaking skills in the target language. Students will be assessed based on their understanding of and responses to the literature, as well as on their contributions to the lower level classroom.

German I (1/2 Credit per semester)

ISCC: 06120G/06201A000

NCAA

PREREQUISITE(S): None; Proficiency exam available per teacher discretion for students with previous German language experience

German I is an elective course designed to develop world language skills and to prepare students for living in a global society. Students will acquire basic language skills through engaging classroom activities, textbook learning, self-directed learning, reading, speaking, listening and writing. The culture and society of German speaking countries is experienced through art, costumes, and history. Technology is used whenever possible. This course may lead to meeting college entrance requirements.

German II (1/2 Credit per semester)

ISCC: 06220G/06202A000

NCAA

PREREQUISITE(S): German I with a passing grade (or Successful Performance on Proficiency test – teacher’s discretion)

German II is an elective course designed to further develop the world language skills learned in German I and further prepare students for living in a global society. Classroom instruction will be designed to further develop the ability to communicate in a second language by involving students in engaging communicative tasks. Classroom instructions include reading, writing, listening, and speaking skills. Students will learn the target language in a contemporary cultural context. Exposure to culture, music, film, history and current events is an integrated part of German 2. Technology is used whenever possible. This course may lead to meeting college entrance requirements.

German III - Enriched (1/2 Credit per semester)

ISCC: 06320E/06203A000

NCAA

PREREQUISITE(S): German II with a second semester grade of “C” or better

German 3 is an advanced course, which provides in-depth and intensive study of the German language through practice of more complex structures and more extensive vocabulary. This course focuses on having students express more advanced concepts of German, both verbally and in writing, while showing spontaneity in the language. Students will explore the German language through on-line resources and other technological means. Contemporary knowledge is furthered by exploring the art, literature, customs, and history of German-speaking people with an emphasis on current events. This course leads to meeting college entrance requirements if the student is successful.

German IV - Enriched (1/2 Credit per semester)

ISCC: 06420E/06204A000

NCAA

PREREQUISITE(S): German III with a second semester grade of “C” or better

The German course is designed to extend and reinforce the world language skills learned in German 1-3. Students will work toward maintaining extended conversations with sufficient vocabulary and an acceptable accent. This course emphasizes the reading and understanding of uncomplicated but authentic prose, and the writing of narratives that indicate a good understanding of grammar and a strong vocabulary. History and society are explored through the reading and discussion of current events. Culture and art of German speaking countries is presented through research and presentation by the students. This course leads to meeting college entrance requirements if the student is successful.

German V Independent Study – Enriched (1/2 Credit per semester)

ISCC: 06520E/06205A000

PREREQUISITE(S): “A” or “B” in German IV – Enriched and teacher recommendation

This course is designed for German students who began their high school career with previous skills in the World Language. Throughout this class, students will be required to read and analyze advanced level literature and/or authentic texts independently in the World Language. Students will be placed in a Level 1 or Level 2 World Language class to serve as a linguistic mentor to the student in those classes. They will be expected to assist the classroom teacher, tutor fellow students, etc. Also, students will be expected to make presentations and/or teach topics as selected by the teacher as they refine their speaking skills in the target language. Students will be assessed based on their understanding of and responses to the literature, as well as on their contributions to the lower level classroom.

Latin I (1/2 Credit per semester)

ISCC: 06130G/06301A000

NCAA

PREREQUISITE(S): None (Proficiency exam available per teacher discretion for students with previous Latin language experience)

This course introduces students to the language and culture of Ancient Roman civilization. In this curriculum-inspired by tabletop roleplaying games—students use Latin to lead their own character through the ancient Roman world on a quest to save humanity. Students narrate all of their adventures in Latin and develop a thorough understanding of basic Latin grammar and vocabulary. Students also actively study English grammar and English derivatives that come from Latin. Along their journey, the class relives and explores various mythological stories, cultural practices, and historical events of Ancient Roman civilization. Highlights include firsthand experiences with the Fall of Troy, Founding of Rome, Fall of the Roman Monarchy, Battle of Cannae, and the Volcanic Eruption of Mt. Vesuvius.

Latin II (1/2 Credit per semester)

ISCC: 06230G/06302A000

PREREQUISITE(S): Latin I with a 2nd Semester grade of “D” or better.

NCAA

This course enables student to expand upon what they learned in Latin I as they develop an intermediate proficiency in the language and culture of Ancient Roman civilization. In this curriculum-inspired by tabletop roleplaying games—students continue to use Latin to lead their own character through the ancient Roman world on a quest to save humanity. Students narrate all of their adventures in Latin and develop a thorough understanding of intermediate Latin grammar and vocabulary. Along their journey, the class relives and explores various mythological stories, cultural practices, and historical events of Ancient Roman civilization. Highlights include firsthand experiences with the Fall of Carthage, First Roman Civil War, Assassination of Julius Caesar, and the Pisonian Conspiracy. By the end of this course, students have a basic familiarity with almost all grammar and word endings in the Latin language, and they are prepared to begin reading authentic Roman writers in Latin.

Intermediate Latin Poetry - Enriched (1/2 Credit per semester)

ISCC: 06330E/06303A000

PREREQUISITE(S): Latin II with a 2nd semester grade of “C” or better

NCAA

Taught on even-numbered years (2020, 2022, etc.), this course introduces Latin students to Roman poetry of the Empire and Late Republic. Very little new grammatical forms are introduced in this course, and students instead focus on mastering grammar and vocabulary introduced in Latin I & II. Students do this by reading and analyzing Latin poetry written by prolific Roman poets such as Catullus, Ovid, Martial, and Virgil. Students study poetic meters and learn how to closely read poetry exploring themes of mythology, love, heartbreak, friendship, and war. To strengthen their contextual understanding of Roman poetry, students also closely examine Roman mythology, architecture, and history pertaining to the Roman Empire.

Intermediate Latin Prose - Enriched (1/2 Credit per semester)

ISCC: 06430E/06304A000

PREREQUISITE(S): Latin II with a 2nd semester grade of “C” or better

NCAA

Taught on odd-numbered years (2019, 2021, etc.), this course introduces Latin students to non-poetic Roman literature of the Republic and Early Empire. Very little new grammar can be introduced in this course, and students instead focus on mastering grammar and vocabulary introduced in Latin I & II. Students do this by reading and analyzing speeches, letters, and historical texts written by prolific Roman authors such as Cicero, Julius Caesar, Pliny the Elder, and Eutropius. Students also study literary devices and learn how to closely analyze primary sources that provide a firsthand account of Roman crises, conflicts, and culture. To strengthen their contextual understanding of these works, students also closely examine Roman legends, history, and archaeology pertaining to the time of the Roman Monarchy and Roman Republic.

Latin V Independent Study – Enriched (1/2 Credit per semester)

ISCC: 06530E/06305A000

PREREQUISITE(S): “A” or “B” in Intermediate Latin Poetry/Prose - Enriched and teacher recommendation

This course is designed for Latin students who began their high school career with previous skills in the Latin Language. Throughout this class, students will be required to read and analyze advanced level Latin literature in prose and poetry. To achieve an advanced proficiency in the Latin language, independent study students compose and write in the Latin language on a regular basis. These students are also expected to assist lower level Latin students as a peer mentor.

Spanish I (1/2 Credit per semester)

ISCC: 06140G/06101A000

PREREQUISITE(S): Entrance exam for placement.

NCAA

Spanish I courses emphasize acquisition of basic grammar, vocabulary, syntax, and spoken accent through storytelling and reading. Students will learn to read, write, speak and understand the language at a basic level using customary courtesies and conventions. Spanish culture is introduced through the art, customs, and history of Spanish-speaking people.

Spanish II (1/2 Credit per semester)

ISCC: 06141G/06102A000

PREREQUISITE(S): Spanish I with a passing grade

Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Through storytelling and reading, students continue to acquire the ability to write, read, speak and understand the language at a more advanced level. Students explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the cultures.

NCAA

Spanish II for Heritage Speakers (1/2 Credit per semester)

ISCC: 06141H/06102A000

PREREQUISITE(S): Spanish I for Heritage Speakers with a passing grade or successful performance on the Spanish I proficiency exam

Spanish II for Heritage Speakers is a course designed for students who are already able to converse in Spanish but need further practice improving their speaking, reading and writing skills in an academic setting. This class is taught exclusively in Spanish. Students will also explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the cultures.

NCAA

Spanish III - Enriched (1/2 Credit per semester)

ISCC: 06340E/06103A000

PREREQUISITE(S): Spanish II or Spanish II for Heritage Speakers with a second semester grade of "C" or better

Spanish III courses focus on having students express more advanced concepts, both verbally and in writing while showing spontaneity. Students will increase skills in discourse, writing of passages, and rules of grammar. Through storytelling and reading, students will attain more facility and faster understanding when listening to the language spoken at normal rates, be able to paraphrase or summarize written passages, and converse easily within limited situations. Students will continue exploring the art, literature, customs, and history of Spanish-speaking people. Lab time outside of class using the website Quia.com will be required in order to prepare for the National Spanish Exam. The exam is given in March.

NCAA

Spanish IV - Enriched (1/2 Credit per semester)

ISCC: 06440E/06104A000

PREREQUISITE(S): Spanish III Enriched with a second semester grade of "C" or better

This course is designed to parallel a college level course in Spanish conversation and composition. Spanish IV Enriched courses build on 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 their vocabulary in order to understand literary texts (including the famous story of Don Quijote), films, and television productions. Students will continue exploring the art, literature, customs, and history of Spanish-speaking people. Lab time outside of class using the website Quia.com will be required in order to prepare for the National Spanish Exam, which is given in March. In April, students that meet the required SAT or ACT or ACCESS scores in English can take the Illinois Seal of Biliteracy Exam. Students who pass the exam will receive a seal on their diploma and could also receive college credit for the class.

NCAA

Spanish V - Enriched (1/2 Credit per semester)

ISCC: 06540E/06105A000

PREREQUISITE(S): "A" or "B" in Spanish IV Enriched or teacher recommendation after Spanish III

This course is designed to parallel a college level course in Spanish for students who began their high school career with previous skills in the World Language. This class is taught entirely in Spanish. Throughout this class, students will be required to read and analyze advanced level literature and/or authentic texts in Spanish. Students will be assessed based on their understanding of and responses to the literature, as well as on their contributions in class. Students will also continue exploring the art, customs, and history of Spanish-speaking people. Students will prepare throughout the year for the National Spanish Exam in March and Seal of Biliteracy Exam in April. Though not designated as an Advanced Placement (AP) course, some AP-style preparation activities will be incorporated; students wishing to learn additional material independently may prepare to take the AP Spanish Language exam.