

Community High School District 155

Incoming Freshmen Course Guide

2019-2020



Cary-Grove High School
Crystal Lake Central High School

Prairie Ridge High School
Crystal Lake South High School

COURSE INDEX

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This guide contains a subset of courses that are typically taken by freshmen. To see a complete list of courses, please visit the D155 Curriculum Guide available on our website, or by clicking [here](#).

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Computer Science

Course #	Course Title	Full Year	Credit	Grade Level
379/380	Introduction to Computer Science		½	9-12
483MA/484MA	Mobile App Development (iOS 1)	X	1	9-12
387CSP/388CSP	AP® Computer Science Principles	X	1	9-12
383/384	AP® Computer Science	X	1	9-12

Art

Course #	Course Title	Full Year	Credit	Grade Level
651/652	Visual Art Basics		½	9-12
655/656	Visual Art and Technology		½	9-12
653/654	Studio Art 1: 2D/3D		½	9-12
659/660	Studio Art 2: 2D		½	9-12
661/662	Studio Art 2: 3D		½	9-12
657/658	Art Independent Study		½	9-12
665/666	Photographic Imaging I		½	9-12
663/664	Art and Design I		½	9-12

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English

Course #	Course Title	Full Year	Credit	Grade Level
011/012	Freshman English I	X	1	9
071/072	Intensive Reading Level 1	X	1	9
171/172	Freshman Climb English	X	1	9
157/158	Targeted Reading Level 1	X	1	9
101/102	Freshman English 101 & 102	X	1	9
103/104	Honors Freshman English 101 & 102	X	1	9

Music

Course #	Course Title	Full Year	Credit	Grade Level
781/782	Music Technology and Production		½	9-12
753/754	Band I	X	½	9-12
755/756	Band II	X	½	9-12
757/758	Band III	X	½	9-12
759/760	Band IV	X	½	9-12
763/764	Percussion Studies	X	½	9-12
765/766	Beginning Treble Choir	X	½	9-11
777/778	Bass Choir	X	½	9-12
769/770	Beginning Chorus	X	½	9-12
771/772	Advanced Chorus	X	½	9-12

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Business Education

Course #	Course Title	Full Year	Credit	Grade Level
479/480	Introduction to Business I		½	9-10
461DC/462DC	Computer Business Applications I		½	9-12

Child Development & the Family

Course #	Course Title	Full Year	Credit	Grade Level
557/558	Orientation to Family and Consumer Sciences		½	9-10

Culinary Arts

Course #	Course Title	Full Year	Credit	Grade Level
559/560	Culinary Arts I		½	9-12
559COM/560COM	Culinary Arts I Commercial		½	9-12
561/562	Culinary Arts II		½	9-12
561COM/562COM	Culinary Arts II Commercial		½	9-12

Education for Employment

Course #	Course Title	Full Year	Credit	Grade Level
851/852	Achieve (Related)	X	½	9-12
853/854	Achieve (Job)	X	½	9-12

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Fashion & Design

Course #	Course Title	Full Year	Credit	Grade Level
551/552	Fashion Opportunities I		½	9-12
553/554	Fashion Opportunities II		½	9-12
573/574	Housing & Interior Design		½	9-12

Industrial Technology

Course #	Course Title	Full Year	Credit	Grade Level
501/502	Orientation to Industrial Technology		½	9-10
503	Introduction to Technical Design & Drafting		½	9-12
504	Technical Design & Drafting		½	9-12
513/514	Woods I		½	9-12
515/516	Woods II		½	9-12
520/521	Metals I		½	9-12
521/522	Metals II		½	9-12
525RD/526RD	Robotics & Drone Technology		½	9-12
525/526	Electronics I		½	9-12
527/528	Electronics II		½	9-12
533/534	Small Engines		½	9-12
484STC	Student Technical Center		¼	9-12
493H/494H	H Introduction to Engineering Design	X	1	9-12

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Social Science

Course #	Course Title	Full Year	Credit	Grade Level
029/030	Social Science I	X	1	9-10
031/032	Social Science II	X	1	9-10
237/238	World Studies I & II	X	1	9-10
239/240	H World Studies I & II	X	1	9-10
235/236	AP® European History	X	1	9-12
255/256	AP® Human Geography	X	1	9-12

World Language

Course #	Course Title	Full Year	Credit	Grade Level
401/402	French I	X	1	9-12
413/414	German I	X	1	9-12
425/426	Spanish I	X	1	9-12
427/428	Spanish II	X	1	9-12
435/436	Accelerated Spanish II	X	1	9-12
429/430	H Spanish III	X	1	9-12
439/440	H Accelerated Spanish III	X	1	9-12

Non-Departmental Courses

Course #	Course Title	Full Year	Credit	Grade Level
871/872	AVID- Freshmen	X	1	9
863/864	SEMINAR- Freshmen		NA	9

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Math

Course #	Course Title	Full Year	Credit	Grade Level
019/020	Math I	X	1	9
021/022	Pre-Algebra	X	1	9-10
023/024	Algebra	X	1	9-11
355/356	Algebra	X	1	9-12
357/358	Geometry	X	1	9-12
361/362	Algebra	X	1	9
363/364	Geometry	X	1	9-11
371/372	H Geometry	X	1	9-10
373/374	H Algebra II with Trigonometry	X	1	9-11
375/376	H Precalculus	X	1	9-12

Science

Course #	Course Title	Full Year	Credit	Grade Level
303/304	Biology	X	1	9-12
309/310	Biology	X	1	9-12
319/320	H Biology	X	1	9

Wellness

Course #	Course Title	Full Year	Credit	Grade Level
713/714	Freshman Coed	X	½	9
711/712	Adaptive Physical Education		¼	9-12

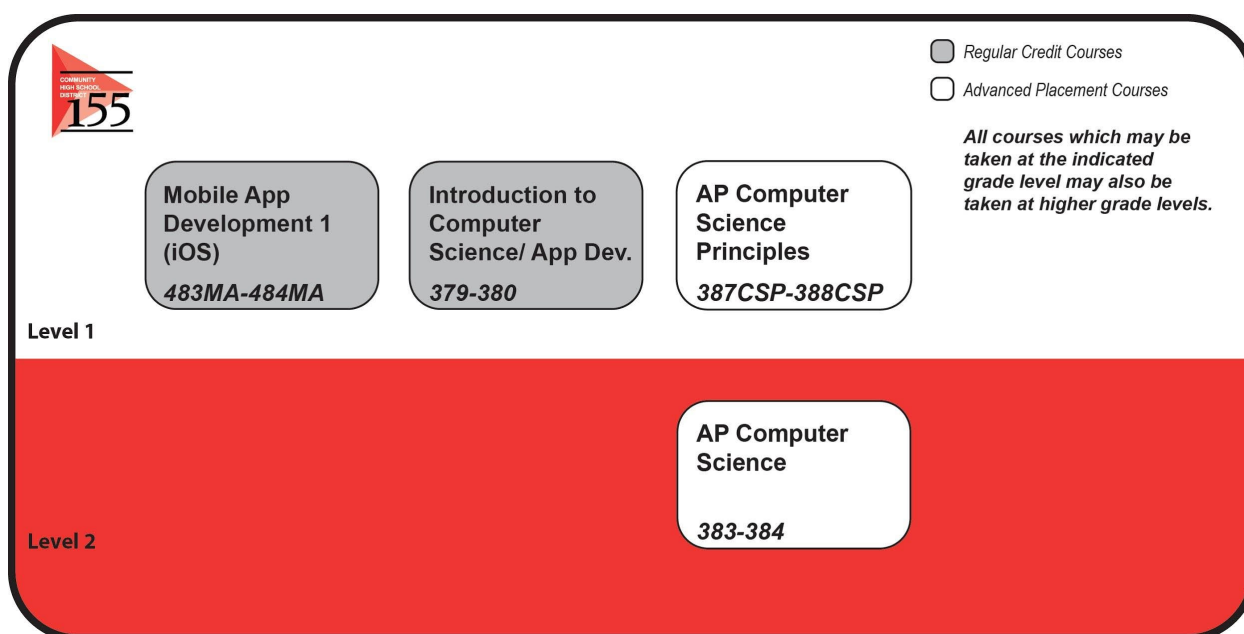
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COMPUTER SCIENCE

COMPUTER SCIENCE COURSE SEQUENCE



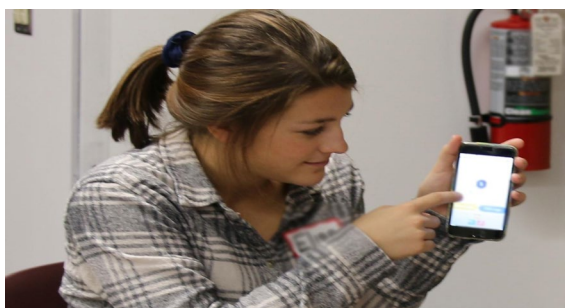
COMPUTER SCIENCE

INTRODUCTION TO COMPUTER SCIENCE

Semesters: I
Prerequisite: Algebra
Level: 9, 10, 11, 12
Credit: 1/2
Taxonomy: 379/380

This course meets the Computer requirement for graduation, but not the math requirement.

The students will learn basic elements of coding and Android-based mobile application design and apply these concepts to problems in mathematics and related areas. Additionally, students will design algorithms to assist in solving these problems. Students will find this course designed to establish a foundation for further study in computer science and to prepare college-bound students who will need computer knowledge to carry out study and application in a variety of subject areas.



MOBILE APP DEVELOPMENT (iOS 1)

Semesters: 2
Prerequisite: None
Level: 9, 10, 11, 12
Credit: 1
Taxonomy: 483MA/484MA
Location: CLC

This course meets the Computer requirement for graduation, but not the math requirement. Mobile applications are a part of today's society. As the expression states, "There's an app for that!" With the need for all these apps, there is a growing demand for software design and engineering jobs. This course will teach you skills needed to develop fully functioning apps as well as allow you to build the necessary skills to become part of this fast growing job market. Over the course of the year, students will collaborate with each other as they learn fundamental CS and programming skills aligned to CSTA standards, the Xcode programming language, and develop real-world applications! This is a hands-on course where students will be creating 8 working iOS applications in a development shop setting. The year will culminate with students pitching an app idea to the class, evaluating the feedback they receive, and then developing and designing their own app from scratch!

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ADVANCED PLACEMENT®

Click [here](#) to read more on Advanced Placement® courses and to access student friendly resources. Please note: Students taking the AP® exam will be required to pay College Board's AP Exam fee.

ADVANCED PLACEMENT® COMPUTER SCIENCE PRINCIPLES

*This course meets the Computer requirement for graduation.

Semesters: 2

Prerequisite: Students should have successfully completed at least one year of Algebra I.

Level: 9, 10, 11, 12

Credit: 1/2 per semester

Taxonomy: 387CSP/388CSP

AP® Computer Science Principles is a course offered by the College Board. The College Board website describes the course as “introducing students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications, AP® Computer Science Principles prepares students for college and career.” Moreover, “Rather than teaching a particular programming language or tool, the course focuses on using technology and programming as a means to solve computational problems and create exciting and personally relevant artifacts.”

This year long course focuses on seven big ideas; creativity, abstraction, data and information, algorithms, programming, the internet, and global impact. Students that are motivated, collaborative, creative, interested in solving problems, enjoy computers and demonstrate critical thinking skills are encouraged to participate.

Additional Information: This is an elective course. However, successful completion of this course may count

towards the mathematics graduation requirement if the student has earned 2.0 credits in other math coursework; including a 1.0 must be Algebra II. The credit earned in AP® Computer Science Principles may not count as both an elective and math credit.

ADVANCED PLACEMENT® COMPUTER SCIENCE

*This course meets the Computer requirement for graduation.

Semesters: 2

Prerequisite: Geometry or teacher recommendation

Level: 9, 10, 11, 12

Credit: 1/2 per semester

Taxonomy: 383/384

Computer science encompasses the collection of technical skills and scientific methodologies used in the creation of high quality computer based solutions to real problems. This is more than a programming course. Topics include modular program design, control structures, recursion, data structures, algorithms, searching, sorting, and modeling. A goal of the course is to prepare students for the Advanced Placement® computer science exam.

Successful completion of this course may count towards the mathematics graduation requirement if the student has earned 2.0 credits in other math coursework; of which 1.0 must be Algebra II.



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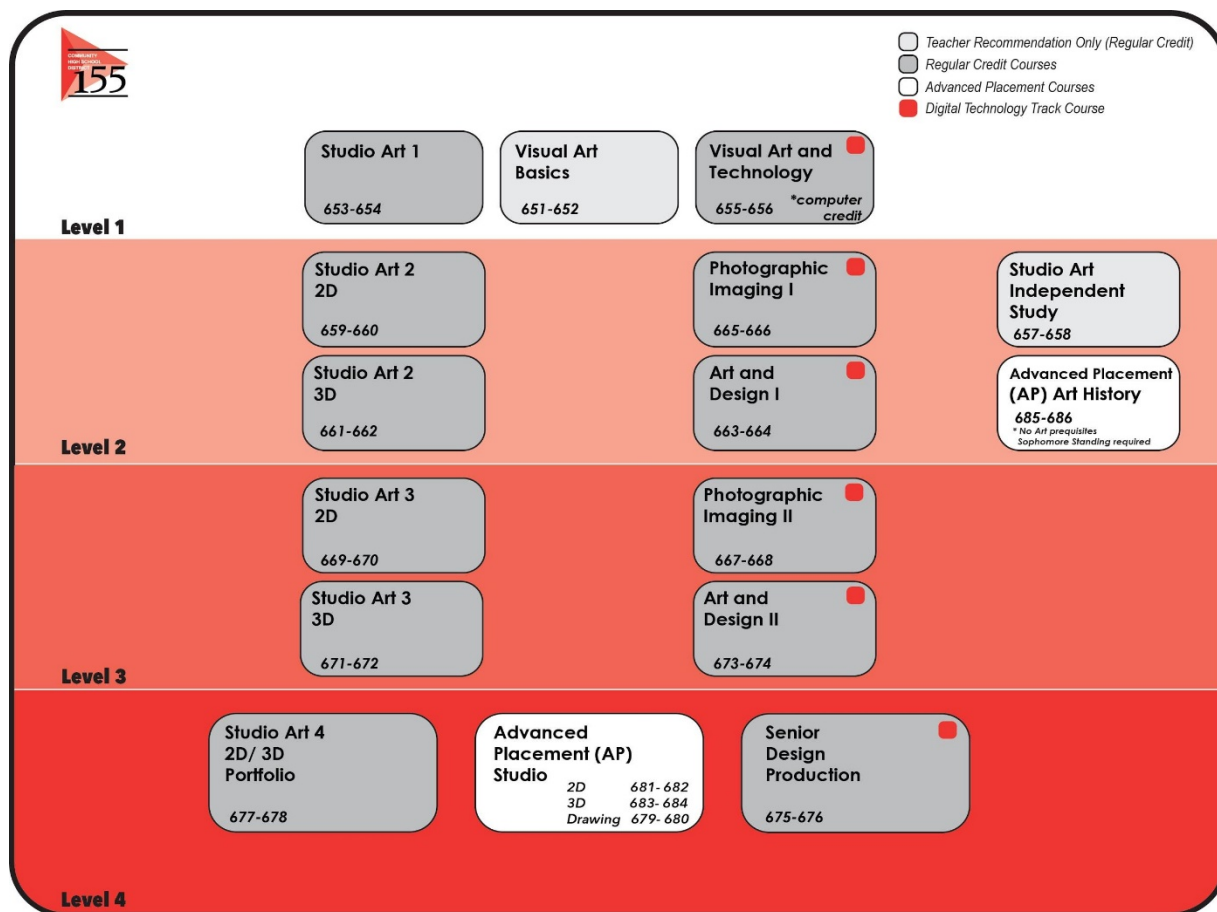
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HUMANITIES



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ART COURSE SEQUENCE



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ART

VISUAL ART BASICS

Semesters: 1
Prerequisite: Staff recommendation
Level: 9, 10, 11, 12
Credit: 1/2 per semester
Taxonomy: 651/652

This beginning level art class allows a unique opportunity for students to experience a variety of media including: drawing, painting, clay, and sculpture. This course is targeted for students participating in the Functional Living Skills Program. Visual Art Basics can be taken one or both semesters as projects are not repeated throughout the school year.

VISUAL ART AND TECHNOLOGY

Semesters: 1
Prerequisite: None
Level: 09, 10, 11, 12
Credit: 1/2
Taxonomy: 655/656

Set yourself apart by becoming creative problem-solvers and explore current digital technology. Many new and existing professions combine studio art skills and digital media. Students will use a combination of digital technology and creative art making to explore their world, identity, possible careers, and future. No previous

experience is necessary and everyone creates at their own level. This course serves as one of two prerequisite options for all students whether they are progressing through the four-year program or are interested in a creative experience. To learn more about this course and the art program sequence, please visit your school's art department website.

Additional Information: This course or Visual Art Inventions serves as the prerequisite for the art program sequence. It also honors the computer credit requirement for graduation.



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STUDIO ART 1: 2D/3D

Semesters: 1
Prerequisite: None
Level: 9, 10, 11, 12
Credit: 1/2
Taxonomy: 653/654

Got creativity? Creative challenges are a part of everyday life. This is your opportunity to strengthen your creative and problem solving skills through the use of various art media and concepts. Media may include drawing, painting, ceramics, jewelry, and sculpture. Students will invent solutions through individual and collaborative activities, games, and projects that reflect personal interests, values, and a global perspective. No previous art experience is necessary, and everyone creates at their own level. This course serves as the preferred entry for all other Studio Art classes whether students are progressing through the four-year program or are interested in a creative experience. To learn more about this course and the art program sequence, please visit your school's art department website.

STUDIO ART 2: 2D

Semesters: 1
Prerequisite: Preferred completion of Studio Art 1: 2D/3D (653 & 654) or permission from instructor
Levels: 9, 10, 11, 12
Credit: 1/2
Taxonomy: 659/660

"Who am I?" In Art and Identity students will learn about themselves by exploring who they are, how they want others to see them, and who they want to become. Primarily using 2-D processes and individualized instruction, students will explore and develop their personal identity through the visual arts. Media may include drawing, painting, and mixed media. This intermediate course emphasizes creative individual solutions, conceptual thinking, and the development of design aesthetics while providing hands-on experience in a variety of media. Please visit the school's art department website for additional information.

STUDIO ART 2: 3D

Semesters: 1
Prerequisite: Successful completion of Studio Art 1: 2D/3D or permission from instructor
Levels: 9, 10, 11, 12
Credit: 1/2
Taxonomy: 661/662

What is my place in the world? Students enrolled in Art and Community will explore this question by using 3-D processes in both individual and group projects. This course will help students understand the impact of the arts on society, and how the arts can be a community, whether locally, globally or online. This course emphasizes creative, individual and collaborative solutions through hands-on experience and opportunities. To learn more please visit your school's art department website for current information.

ART INDEPENDENT STUDY

Semesters: 1
Prerequisite: Instructor and Division Leader Approval
Level: 9, 10, 11, 12
Credit: 1/2
Taxonomy: 657/658

This course will provide students opportunities to refine their skills and create for a wide variety of purposes and audiences. Students will be allowed to choose their own areas of focus and explore ways that Art can make a difference in the world. This course offers students involvement in a creative, collaborative atmosphere where they will develop their own direction resulting in the creation of a cohesive body of work for portfolio and exhibition purposes. Curriculum project concepts and media are self-directed with the teacher acting as a facilitator.

Note: There may be other optional material costs associated with this course.

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PHOTOGRAPHIC IMAGING I

Semesters: 1

Prerequisite: Successful completion of Visual Art and Technology.

Level: 9, 10, 11, 12

Credit: 1/2

Taxonomy: 665/666

If a picture is worth 1,000 words, then what do you want to say? In Photographic Imaging I, students will examine how artists compose and manipulate images and utilize a variety of technologies to communicate ideas. Students will use traditional, digital, and experimental photographic processes. This course emphasizes problem solving, conceptual thinking, and the interpretation of images. Students will explore such avenues as commercial photography, photojournalism, and fine art photography. Please visit the art department website at your child's school for additional information.

ART AND DESIGN I

Semesters: 1

Prerequisite: Successful completion of Visual Art and Technology.

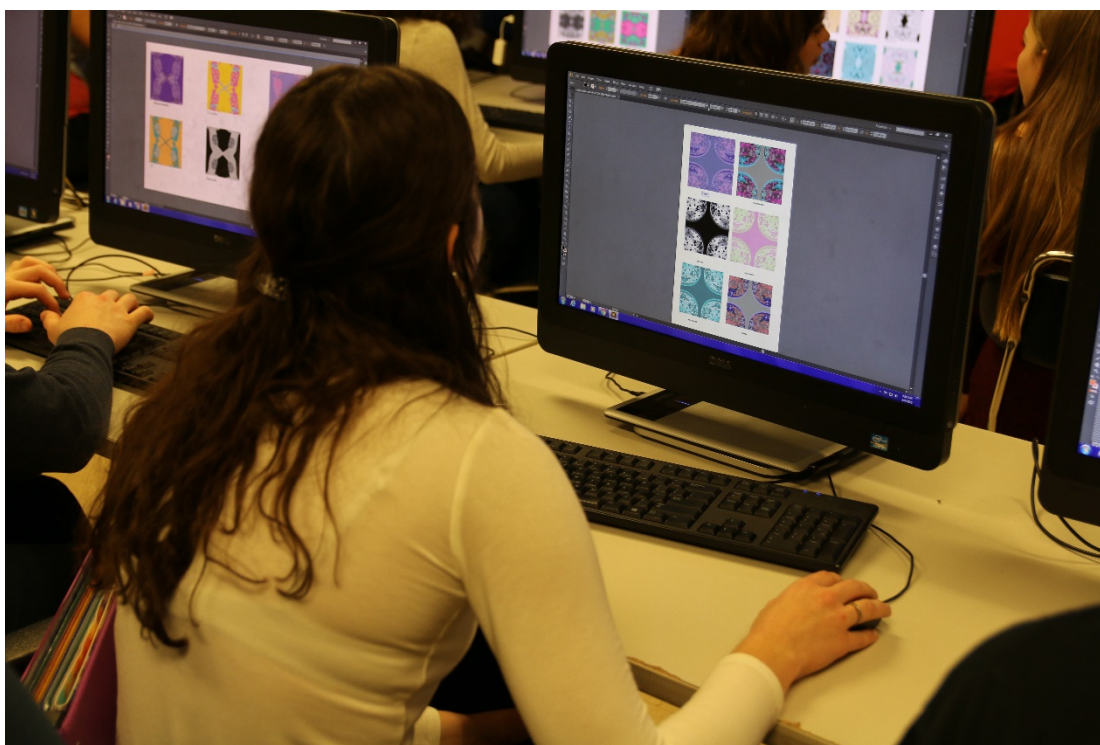
Level: 9, 10, 11, 12

Credit: 1/2

Taxonomy: 663/664

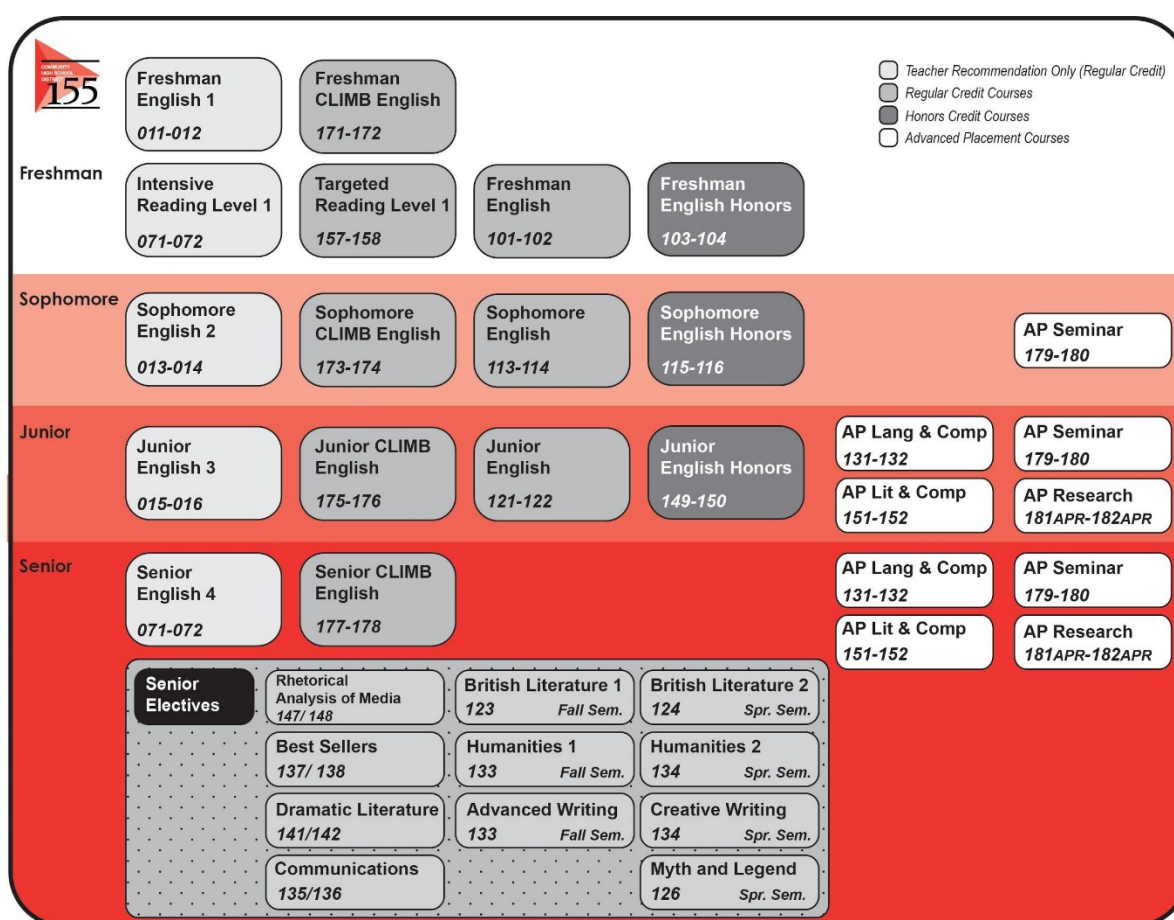
Art is everywhere! Posters, t-shirts, album art, logos, and websites are just a few examples of design that influences us. In this course, students will use current digital technology to transform artistic ideas into persuasive visual communication. Concepts covered will include multiple image layering, the relationships of words and pictures, design aesthetics, and idea development strategies used by the expanding media industry. Please visit the school's art department website for additional information.

Additional Information: This course or Visual Art and Technology serves as the prerequisite for the art program sequence.



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ENGLISH COURSE SEQUENCE



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ENGLISH

Community High School District 155 offers students a variety of English courses. Each course except Intensive Reading Level 1 and Targeted Reading Level 1 yields $\frac{1}{2}$ credit per semester towards the four English credits required for graduation. Students who successfully complete the Intensive Reading Level 1 or Targeted Reading Level 1 course will earn $\frac{1}{2}$ elective credit per semester.

All English courses emphasize the important language arts skills: reading, literature, writing, grammar and usage, word study and vocabulary, speaking and listening, critical and creative thinking spelling and punctuation, and research.

Direct Instruction

FRESHMAN ENGLISH I

Semesters: 2
Prerequisite: None
Level: 9
Credit: $\frac{1}{2}$ per semester
Taxonomy: 011/012

This freshman level English course provides support for students who are developing skills in the areas of written communication, reading comprehension, speaking and listening, and grammar. Placement is only available through staff conference recommendation.

INTENSIVE READING LEVEL 1

Semesters: 2
Prerequisite: Students are recommended through their special education team.
Level: 9
Credit: $\frac{1}{2}$ elective credit per semester
Taxonomy: 071/072

This two-semester course is required for freshmen in need of improved reading skills. Students are recommended through a staff conference. The content of the course focuses on developing fluency, vocabulary, and comprehension.

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General

FRESHMAN CLIMB ENGLISH

Semesters: 2

Prerequisite: Approval of the division leader.

Level: 9

Credit: 1/2 per semester

Taxonomy: 171/172

The purpose of Climb is to provide an environment for students which is designed to increase reading, writing, and thinking skills. The curriculum includes a special focus on developing reading and writing strategies for students who have a reading level at least one and a half years below grade level. In most instances, students enrolled in Freshman Climb English will also be enrolled in Targeted Reading Level 1.

TARGETED READING LEVEL 1

Semesters: 2

Prerequisite: Recommendation by the division leader.

Level: 9

Credit: 1/2 elective credit per semester

Taxonomy: 157/158

This two semester course is required for freshmen in need of stronger reading skills. Students will become better at making predictions, connections, and questions to find deeper meaning. They will apply strategies when reading difficult text and engage in meaningful dialogue with classmates. They will actively monitor and track their development as readers through a variety of methods, including a journaling system. They will support their opinions with examples and be able to apply strategies that will allow them to read successfully both in and out of school in which they can read successfully. In most instances, students enrolled in Targeted Reading Level 1 will also be enrolled in Freshman Climb English.

FRESHMAN ENGLISH 101 and 102

Semesters: 2

Prerequisite: Recommendation by the division leader.

Level: 9

Credit: 1/2 per semester

Taxonomy: 101/102

This course provides the skills and knowledge needed to be successful in all other high school English courses. As a result of taking this course, students will understand the elements of the writing process, develop fundamental writing skills, and apply grammar skills effectively. They will read with comprehension and fluency and acquire, assess, and communicate information through research.

Honors

HONORS FRESHMAN ENGLISH 101 and 102

Semesters: 2

Prerequisite: Placement by Division Leader

Level: 9

Credit: 1/2 per semester

Taxonomy: 103/104

This two semester course is a freshman honors course. Students who have already mastered the grammar and mechanics of writing will pursue higher-level thinking skills and more sophisticated composition forms and techniques. To be enrolled in this course an incoming freshman must exhibit superior language arts abilities.

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MUSIC

MUSIC TECHNOLOGY AND PRODUCTION

Semesters: 1
Level: 9, 10, 11, 12
Credit: 1/2 per semester
Taxonomy: 781/782

In this course you will learn how to use technology to create, edit, and enhance sound and music. We will explore a full suite of software and hardware designed to increase your understanding of how to maximize the quality of recordings, how to reinforce live sound production, and how to manipulate audio files in a post production setting. This is an introductory level course and is open to all students. No previous musical or acoustical knowledge or experience is required.



MUSIC APPRECIATION (DUAL CREDIT)

Semesters: 1
Prerequisite: Approval of department chairperson
Level: 9, 10, 11, 12
CHSD 155 Credit: 1/2 per semester
MCC Credit: 3 per semester
Taxonomy: 785DC/786DC

This course is designed for students who want to learn more about the history of music and musicians. The course starts with the basics of music and continues with medieval music to American popular music and world music. The course will take a look at each period of music, its composers, types of music, and utilizes many recorded examples. Click [link](#) to learn more about dual credit for this course.

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BAND I

Semesters: 2

Prerequisite: No previous musical experience; approval of instructor

Level: 9, 10, 11, 12

Credit: 1/4 per semester

Taxonomy: 753/754

This class is designed for those students who have little or no previous instrumental experience yet have demonstrated a desire to learn. Emphasis is placed upon beginning instrumental methods with additional concentration in the understanding of instrumental technique, rhythmic accuracy, tone, intonation and general music terms and concepts. Although no audition is required, the student should consult with the instructor prior to the start of the semester. In some cases a school instrument will be provided for the first year.

BAND II

Semesters: 2

Prerequisite: Previous instrumental experience and audition with director

Level: 9, 10, 11, 12

Credit: 1/4 per semester

Taxonomy: 755/756

This class will continue to develop instrumental techniques and methods through the performance of appropriate wind literature. This class furthers understanding and development of ensemble rehearsal techniques and studies. This organization may combine with the Advanced Bands in the fall for the marching band season and will perform at numerous school, community and district functions. This group serves as the preparatory ensemble to the

Advanced Bands. Membership and seating is by audition only.

BAND III

Semesters: 2

Prerequisite: Previous instrumental experience and audition with director

Level: 9, 10, 11, 12

Credit: 1/4 per semester

Taxonomy: 757/758

These classes offer music students opportunities to study and perform literature ranging in various difficulty and music styles. Emphasis is placed upon performance and continued understanding of musical skills and concepts. Members of these organizations may combine with the Intermediate Band for the fall marching band season. Membership for these organizations is determined by audition only.



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BAND IV

Semesters: 2

Prerequisite: Previous instrumental experience and audition with director

Level: 9, 10, 11, 12

Credit: 1/4 per semester

Taxonomy: 759/760

This is an ensemble for students with advanced skills. Students are placed by audition after demonstrating the highest proficiency on their instrument. Emphasis is placed on the teaching and performing of the most advanced literature with the subtleties and nuances of interpretation as a primary goal. Music history and theory are applied through the use of appropriate forms and styles of music.

PERCUSSION STUDIES

Semesters: 2

Prerequisite: Previous instrumental experience & audition with the instructor.

Level: 9, 10, 11, 12

Credit: 1/4 credit per semester

Taxonomy: 763/764

This course is designed to address the specific needs of the student of the percussion section of the instrumental music program. Topics covered include an intense study of rhythm and rudimental techniques unique to the percussion section. Also covered is the marching drumline, drumset, keyboard mallet techniques, timpani, color and auxiliary percussion. Students will work as both an independent percussion ensemble and as members of the regular concert bands. All ability levels are placed in the class.



BEGINNING TREBLE CHOIR

Semesters: 2

Prerequisite: Semester 1: None; Semester 2: Consent of instructor

Level: 9, 10, 11

Credit: 1/4 per semester

Taxonomy: 765/766

This choir is made up predominantly of freshmen. This group concentrates on sight-reading, three-part harmony (SSA), ear-training, musical terms, etc. The group appears at several performances each school year.



BASS CHOIR

Semesters: 2

Prerequisites: Level: 9 – Semester 1: None; Semester 2: Instructor consent

Prerequisites: Level 10, 11, 12: Consent of instructor

Credit: 1/4 per semester

Taxonomy: 777/778

This is a chorus of students ranging from freshmen through seniors. This group concentrates on sight-reading, ear training, and development of the bass voice through a variety of literature (TTBB). This group appears at several performances each year and is available at participating schools.

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BEGINNING CHORUS

Semesters: 2

Prerequisite: Semester 1: None; Semester 2: Consent of instructor

Level: 9, 10, 11, 12

Credit: 1/4 per semester

Taxonomy: 769/770

This chorus is made up predominantly of freshmen. This group concentrates on sight-reading, four-part harmony, ear-training, musical terms, etc. The group appears at several public performances each school year.

ADVANCED CHORUS

Semesters: 2

Prerequisite: Previous vocal experience and audition with director

Level: 9, 10, 11, 12

Credit: 1/4 per semester

Taxonomy: 771/772

mixed voices (SATB) concentrate on repertoire and sight-reading, and is a continuation of skills from beginning chorus. This group also makes public appearances each school year.



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INDUSTRY & CAREERS

BUSINESS EDUCATION

INTRODUCTION TO BUSINESS I

Semesters: 1
Prerequisite: None
Level: 9, 10
Credit: 1/2
Taxonomy: 479/480

This course meets the Consumer Education requirement for graduation.

Do you know what it takes to make wise economic decisions to help you reach your financial goals? Do you have what it takes to create a business? Do you know how to make money work for you? This course is designed to give you an understanding of the American economy and your roles in an ever-changing marketplace. Personal finance units include: checking, money management, credit, saving and investing, insurance and comparison shopping. Other units include: economics, the United States market system, and entrepreneurship. Learn and apply what is needed to live in the real world!

COMPUTER BUSINESS APPLICATIONS I (DUAL CREDIT)

Semesters: 1
Prerequisite: None
Level: 9, 10, 11, 12
Credit: 1/2 (Dual Credit)
Taxonomy: 461DC/462DC

This course meets the Computer requirement for graduation.

This course gives students an opportunity to learn how to apply computer skills used at school, home and a business environment. It builds upon computer literacy concepts taught earlier in general education classes. Instruction in this course focuses specifically on the use of software packages and hardware that form a core used by a person employed in business, marketing or management occupation. Microsoft Office software is used to create documents for word processing, spreadsheets, databases, presentations, web pages, desktop publishing and other related matters. Some students may be able to use this course as a starting point if they are interested in obtaining MOUS (Microsoft Office User Specialist) certification. Click [here](#) to learn more about Dual Credit for this course.

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CHILD DEVELOPMENT & THE FAMILY

ORIENTATION TO FAMILY AND CONSUMER SCIENCES

Semesters: 1

Prerequisite: Instructor approval

Level: 9, 10

Credit: 1/2

Taxonomy: 557/558

This class will survey the areas of home economics related to foods, family, and self. It is designed so that the students will be introduced to concepts such as clothing and textiles, resource management, foods and nutrition, housing, furnishings, human development, interpersonal and family relationships, and the world of work. Students will be provided with information which can improve their quality of life and help them set realistic goals as a citizen, wage earner, individual, family member, and/or parent. This course serves the special needs population as an introduction to any of the classes in the family and consumer science sequence

COURSE INDEX

CULINARY ARTS



CULINARY ARTS I

Semesters: 1
Prerequisite: None
Level: 9, 10, 11, 12
Credit: 1/2
Taxonomy: 559/560

Have fun learning how to prepare and cook foods in a group setting. Lab and classroom experiences will be based on learning how to select, prepare, cook, and store various foods with guidance from a variety of quality resources including <http://www.choosemyplate.gov/>. Emphasis will be placed on meeting health, safety, and sanitation needs.

Information pertaining to nutrition, dietary guidelines, and careers will also be included in the course. Students will

learn the principles of baking and cooking with quick breads, grain products, fruits, vegetables, eggs, and dairy products. To wrap up the semester, the students will participate in a special project.

CULINARY ARTS I COMMERCIAL

Semesters: 1
Prerequisite: None
Level: 9, 10, 11, 12
Credit: 1/2
Taxonomy: 559COM/560COM
Location: CLS

This course takes place in a commercial kitchen and is a study of the principles of nutrition and food preparation including food service and meal management. Additional emphasis is placed on cooking principles, proper use and arrangement of equipment and measurements, which will be practiced by students in weekly cooking experiences. Students will earn the Food Handler's Certification upon completion of this course and passing of the state exam. This certification is required by law for all food handlers of any organization. Key areas of study include: basic food safety, personal hygiene, cross-contamination, time/temp, sanitation, etc. A \$5 fee is associated with this course to cover the cost of the American Heart Association CPR/First-aid certification. An additional \$10 fee is associated with this course to cover the state cost of the Food Handler's Exam and Certification.

COURSE INDEX

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CULINARY ARTS II

Semesters: 1
Prerequisite: Culinary Arts I
Level: 9, 10, 11, 12
Credit: 1/2
Periods: 7 per week
Taxonomy: 561/562

This course is designed to expand on the knowledge learned in Culinary I. Further emphasis will be placed on selecting, preparing, cooking, and preserving various foods. Lab and classroom experiences will emphasize healthy eating habits and emphasize information provided by <http://www.choosemyplate.gov/>. Principles associated with baking cookies, cakes, pastries, and yeast breads will be addressed. Students will also learn about cooking poultry, beef, pork, fish, shellfish, casseroles, soups, and prepare salads. Moreover, they will learn about herbs, spices, and garnishing techniques. The culminating activity will be a special project. Information related to careers in food and nutrition will be included in the course.

CULINARY ARTS II COMMERCIAL

Semesters: 1
Prerequisite: Culinary Arts I and II OR Culinary Arts I Commercial
Level: 9, 10, 11, 12
Credit: 1/2 (Dual Credit)
Periods: 7 per week
Taxonomy: 561COM/562COM

This course is takes place in a commercial kitchen and is designed to expand on the knowledge obtained from Culinary Arts I and II and/or Culinary Arts I Commercial. Students will earn the Illinois Department of Public Health's Food Service Sanitation Manager Certification upon completion of this course if they take and pass the state exam at the end of the semester. This course is designed to begin the professional culinary program that introduces high school students to careers in the restaurant and foodservice industry and teaches them the basic skills and knowledge they will need to achieve success. Higher level preparation techniques, skills, and terminology are covered and mastered with an emphasis on cutlery skills, meat preparation, and pastries. Students in this course will participate in creative preparation and presentation of a

variety of food products. The program encourages high school students to experience all aspects of operating and managing a food service establishment, and helps students build good business and management skills. These skills are as vital to all other industries as they are to foodservice. Should students elect to take the Managers Certification exam, the cost of the exam is \$75.

This course is offered in limited capacity (currently at Crystal Lake South High School) and therefore students from other schools may need to travel to participate. In these instances, students are required to provide their own transportation. Click [here](#) to learn more about Dual Credit for this course.



COURSE INDEX

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EDUCATION FOR EMPLOYMENT

All Education for Employment courses are open to both college and non-college bound students. Placement of students is based on academic background, student needs, and the recommendation of the coordinator.

ACHIEVE

Semesters: 2

Prerequisite: Department Chair

Level: 9, 10, 11, 12

Credit: 1/2 per Semester

Taxonomy: 851/852 (REL) and 853/854 (JOB)

This education for employment course is designed to provide freshmen and sophomores an opportunity to achieve personally, academically and professionally. Classroom instruction focuses on skills such as: study skills, time management, interpersonal skills, and career exploration. By developing these skills and exploring careers it is hoped to spark the interest in students to stay in school and work toward meaningful goals.

COURSE INDEX



FASHION & DESIGN

FASHION OPPORTUNITIES I

Semesters: 1
Prerequisite: None
Level: 9, 10, 11, 12
Credit: 1/2
Taxonomy: 551/552

Designed to introduce the student to the fashion world, this course provides students opportunities to develop knowledge and understanding of textiles, fashions and fabrics and to assist them in meeting the clothing and fabric product needs of themselves, families and/or general public. Information and experiences providing students with an understanding of the psychological aspects of fabric products as related to the needs of people, and the jobs and careers using competencies related to textiles and fabrics are included throughout the course. Development of skills necessary for decisions related to personal image and clothing, and textiles will be stressed. Students will study trends in fashions and career opportunities. Ready-to-wear clothes, as well as clothing constructed by the student, will be used as a basis for learning about clothing, fabric care, and sewing skills. The student will be introduced to the elements of fashion, principles of design, and visual display.

FASHION OPPORTUNITIES II

Semesters: 1
Prerequisite: Fashion Opportunities I
Level 9, 10, 11, 12
Credit: 1/2
Taxonomy: 553/554

This course expands on skills and content learned in Fashion Opportunities I. It is devoted to increasing the level of knowledge and skills of students as they construct, purchase, care for, and work with clothing, textiles, and accessories. Additionally, the ways in which personal and fashion aspects interact with the market will be explored. Broad areas of emphasis for this course include color, line and design in fashion, fibers and fabrics, clothing selection based on needs, sewing and other construction skills, clothing maintenance and care, merchandising clothing, career opportunities in clothing, accessories, and textile product fields, and occupational emphasis in the fashion industry.

COURSE INDEX

HOUSING AND INTERIOR DESIGN

Semesters: 1

Prerequisite: None

Level: 9, 10, 11, 12

Credit: 1/2

Taxonomy: 573/574

This one semester course is designed to provide the student with a variety of hands-on experiences in planning and design of residential interiors. This course explores the current trends in the design profession and provides learning experiences that include an introduction to housing styles, floor plan design, color theory, and elements and principles of design. Additional units of study include the selection of background materials, kitchen and bath planning, furniture styles and arrangement, and choosing lighting and accessories. Each student will create and present a culminating design project based on the design principles learned throughout the semester.

COURSE INDEX

INDUSTRIAL TECHNOLOGY

ORIENTATION TO INDUSTRIAL TECHNOLOGY

Semesters: 2, but a 1 semester option is available at some sites.

Prerequisite: None

Level: 9, 10

Credit: 1/2 per semester

Taxonomy: 501/502

This course is designed to introduce students to the various areas in industrial technology. The course includes, but is not limited to the concepts from small engines, woods, metals, drafting/design, and electronics. Exposure to the technologies associated with these courses will provide orientation, background and experience needed to pursue skill-level industrial technology programs.



INTRODUCTION TO TECHNICAL DESIGN AND DRAFTING (Drafting I)

Semesters: 1

Prerequisite: None

Level: 9, 10, 11, 12

Credit: 1/2 (Articulated Credit)

Taxonomy: 503

This introductory course in technical drawing is designed primarily for the student with no previous drafting experience. A beginning course in mechanical and architectural drafting utilizing primarily computer aided drafting software in which the student will study the need and use of drafting in industry. Students will learn to make simple sketches and drawings involving the use of shape description, size description, geometric construction, orthographic projection, pictorial drawing, and simple auxiliaries. Career opportunities in the drafting industry will be explored. Click [link](#) to learn more about articulated credit for this course.

COURSE INDEX

TECHNICAL DESIGN AND DRAFTING (Drafting II)

Semesters: 1
Prerequisite: Introduction to Technical Design and Drafting
Level: 9, 10, 11, 12
Credit: 1/2 (Articulated Credit)
Taxonomy: 504

This course is a continuation of Introduction to Technical Design and Drafting. Students will continue their work on sketches and drawings involving the use of shape description, size description, geometric construction, pictorial drawing, and simple auxiliaries. In addition, students will be exposed to simple reverse engineering concepts and assignments. Click [link](#) for more information on articulated credit for this course.

WOODS I

Semesters: I
Prerequisite: None
Level: 9, 10, 11, 12
Credit: 1/2
Taxonomy: 513/514

A semester course devoted to learning the fundamental skills and knowledge in the use of hand and power woodworking tools, to use common materials employed in woodworking, and to learn safe and efficient work habits while constructing student projects.

WOODS II

Semesters: I
Prerequisite: Woods I
Level: 9, 10, 11, 12
Credit: 1/2
Taxonomy: 515/516

A course to provide the student with an opportunity to develop more skill in the use of tools, materials and processes in constructing projects involving planning, use of hand and power tools, and to introduce the basic operations on machines.

METALS I

Semesters: 1
Prerequisite: None
Level: 9, 10, 11, 12
Credit: 1/2
Taxonomy: 520/521

An introductory course in metal work for the student who is interested in bench metal, sheet metal, ornamental metal, forging, heat treating, foundry, cutting, finishing, beginning welding and lathe. Where appropriate, students will be introduced to power machinery such as the milling machine and lathe. Safe and proper use of all equipment will be stressed and reinforced during related project work and lab exercises.

METALS II

Semesters: 1
Prerequisite: Metals I
Level: 9, 10, 11, 12
Credit: 1/2
Taxonomy: 521/522

This is the second course in metal work. It is designed to expose the student to additional metalworking processes introduced in the beginning class, but major emphasis will be placed on learning to use machine tools. These include the lathe, milling machine, vertical and horizontal band saws and grinders. The welding of metal may also be introduced. The skill and knowledge one must have to work safely in these areas are highly stressed. Projects will be made to implement this technical material.



COURSE INDEX

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ROBOTICS & DRONE TECHNOLOGY

Semesters: 1
 Prerequisite: None
 Level: 9, 10, 11, 12
 Periods: 5 per week
 Credit: 1/2
 Taxonomy: 525RD/526RD
 Location: CLC / PR

Students will develop skills in mechanical design, digital electronics, coding, and fabrication as they work in teams to build simple and complex robotics and drone devices. Students will explore usage of robotics and drone technologies in modern business and industry, examine how these devices are affecting our lives and shaping our culture, and the career possibilities of those with knowledge of robotics and drone technology.

ELECTRONICS I (Electricity/Electronics I)

Semesters: 1
 Prerequisite: None
 Level: 9, 10, 11, 12
 Credit 1/2
 Taxonomy: 525/526

This is a course designed for those interested in basic introduction to the field of electricity and electronics. The scope of the course will include use of meters, direct current circuits, application of Ohm's law, magnetism, safety and introduction to alternating current theory. Experiments will be performed using the principles learned in the course.

ELECTRONICS II (Electricity/Electronics II)

Semesters: 1
 Prerequisite: Electronics I or approval of staff
 Level: 9, 10, 11, 12
 Credit: 1/2
 Taxonomy: 527/528

This course is designed to give a further exposure to the field of electronics and will cover the following areas: the use of test equipment; oscilloscopes, operation and application of active devices such as diodes, transistors, and integrated circuits; alternating current theory; inductors and capacitors as applied to alternating current circuits; radio circuits and occupational information. Experiments will be performed using principles learned in the course.

SMALL ENGINES (Power Mech. I)

Semesters: 1
 Prerequisite: None
 Level: 9, 10, 11, 12
 Credit: 1/2
 Taxonomy: 533/534

This is designed as a beginning course for the study of internal combustion engines as major sources of power. Laboratory experiences will be provided on the proper disassembly techniques used on two and four cycle engines, basic vocabulary, concepts, attitudes and mechanical skills. Cooperative work habits, safety and proper usage of common hand tools will be stressed in the laboratory.

COURSE INDEX

STUDENT TECHNICAL CENTER

Semesters: 1
Prerequisite: None
Level: 9, 10, 11, 12
Credit: 1/4 Pass/Fail
Taxonomy: 484STC

Student Technical Center (STC) is a computer technical support program. The purpose of the program is to create a student-run help desk that equips students to provide first-line technical support to students and staff. Students in the program will also participate in an independent study curriculum and have the opportunity to gain valuable industry certifications. Students will develop soft skills necessary for computer careers. While not a traditional class, students will be supervised by our staff and receive academic credit. The course is offered pass/fail; letter grades are not awarded.

Honors- PLTW

HONORS INTRODUCTION TO ENGINEERING DESIGN (IED)

Semesters: 2
Prerequisite: Department approval (for all grade levels). Students in grade 9 must have also successfully completed 8th grade Algebra with a C or better and/or has scored a 230 on the MAP or equivalent standardized assessment.
Level: 9, 10, 11, 12
Credit: 1/2 per semester
Taxonomy: 493H/494H

This course meets the computer requirement for graduation.

A year long honors course, developed by Project Lead the Way, that teaches problem-solving skills using a design development process as it relates to the engineering field. Models of product solutions are created, analyzed and communicated using parametric solid modeling design software. Students that successfully complete this course and meet the score criteria on the PLTW exam may be eligible to earn college credit. Additional fees may be required as part of this process. Please see your PLTW teacher and department chairperson for details.



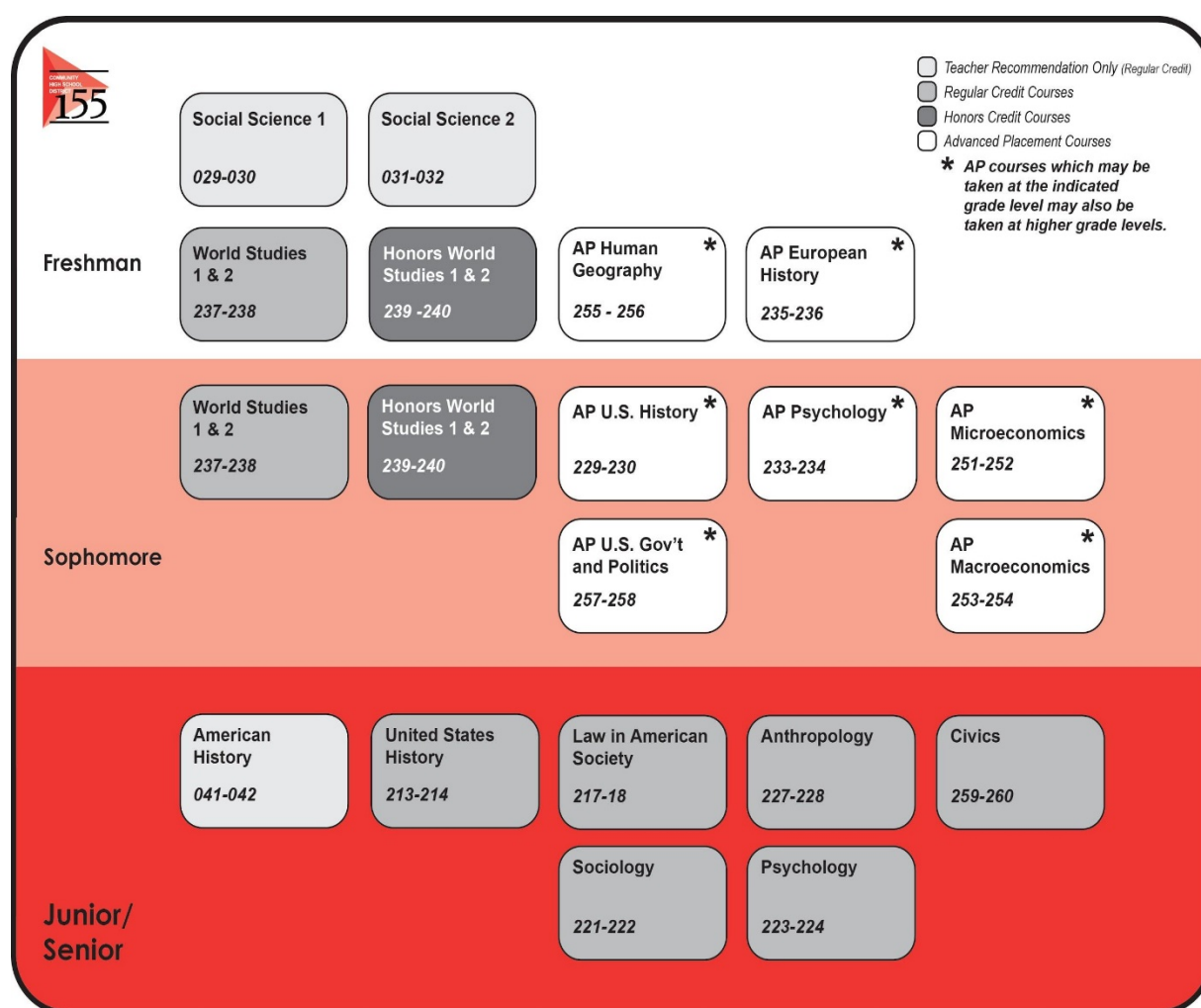
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INTERNATIONAL STUDIES

SOCIAL SCIENCE COURSE SEQUENCE



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SOCIAL SCIENCE

All students are required to successfully complete two semesters (1 credit) of coursework during the freshmen/sophomore block and two semesters (1 credit) of American History in the junior/senior block.

Direct Instruction

SOCIAL SCIENCE I

Semesters: 2

Prerequisite: Teacher recommendation is required and staff conference recommendation.

Level: 9, 10

Credit: 1/2 per semester

Taxonomy: 029/030

As a result of taking this course students will understand the concepts of human and physical geography including the topics of regions, cultures, and the impact technology has had in shaping our world. Placement is only available through staff conference recommendation.

SOCIAL SCIENCE II

Semesters: 2

Prerequisite: Successful completion of Social Science I and teacher recommendation and staff conference recommendation.

Level: 9, 10

Credit: 1/2 per semester

Taxonomy: 031/032

This course continues studies addressed in Social Science I and it is designed to present a basic understanding of government, geography, psychology or social concerns. It allows students to explore these areas through lecture, discussion, and individual projects. Placement is only available through staff conference recommendation.

COURSE INDEX

General

WORLD STUDIES I & II

Semesters: 2

Prerequisite: Successful completion of level I of World Studies is highly recommended before enrolling in level II.

Level: 9, 10

Credit: 1/2 per semester

Taxonomy: 237/238

This course meets the state civics requirement.

World Studies I & II are designed to prepare students in 9th and 10th grades to be critical consumers of information related to diverse global cultures and issues. Students will develop historical and social science critical reading and thinking skills through the use of primary and secondary source documents relating to current and historical issues and events. Course experiences will also prepare students to become more knowledgeable and active citizens. The honors level sequence will accomplish this at a more accelerated rate because it introduces skill sets associated with Advanced Placement[®] Coursework..

Honors

HONORS WORLD STUDIES I & II

Semesters: 2

Prerequisite: Successful completion of level I of World Studies is highly recommended before enrolling in level II.

Level: 9, 10

Credit: 1/2 per semester

Taxonomy: 239/240

This course meets the state civics requirement.

World Studies I & II are designed to prepare students in 9th and 10th grades to be critical consumers of information related to diverse global cultures and issues. Students will develop historical and social science critical reading and thinking skills through the use of primary and secondary source documents. Course experiences will also prepare

students to become more knowledgeable and active citizens. The honors level sequence will accomplish this at a more accelerated rate because it introduces skill sets associated with Advanced Placement Coursework..

Advanced Placement[®]

Click [here](#) to read more on Advanced Placement[®] courses and to access student friendly resources. Please note: Students taking the AP[®] exam will be required to pay College Board's AP Exam fee.

ADVANCED PLACEMENT[®] EUROPEAN HISTORY

Semesters: 2

Prerequisites: Approval of division leader.

Level: 9 (with approval of division leader), 10, 11, 12

Credit: 1/2 per semester

Taxonomy: 235/236

This course meets the state civics requirement.

The 2017 College Board AP[®] Course Description states, "In AP[®] European History students will investigate significant events, individuals, developments, and processes in four historical periods from approximately 1450 to the present." The goals of AP[®] European History are for students to develop (a) an understanding of some of the principal themes in modern European history, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing..

This course is targeted for students that are highly motivated, passionate about history, and demonstrate strong reading and writing skills. Students will prepare for the AP European History exam.

COURSE INDEX

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ADVANCED PLACEMENT® HUMAN GEOGRAPHY

Semesters: 2

Prerequisites: Approval of the division leader.

Level: 9, 10, 11, 12

Credit: 1/2 per semester

Taxonomy: 255/256

This course meets the state civics requirement.

The 2013 College Board AP® Course Description Guide states, “The purpose of the AP® Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth’s surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications.”

This year-long course targets students that are highly motivated, demonstrate critical thinking, analysis, and interpretive skills, as well as possess an interest in maps and geospatial data (e.g., natural or constructed features). Students will prepare for the AP® Human Geography exam..

COURSE INDEX



WORLD LANGUAGE

The student wishing to develop proficiency in a world language should plan a four year program. For college admissions purposes, two to four years of a language are recommended. Due to the nature of these courses, the pass/fail or audit options are not available.

FRENCH, GERMAN, AND SPANISH 1

Semesters: 2
Prerequisite: None
Level: 9, 10, 11, 12
Credit: 1/2 per semester
Taxonomy: (French 401/402) ; (German 413/414) ;
(Spanish 425/426)

Students in level 1 will quickly learn how to talk about themselves and their interests in this class, as well as how to start simple conversations with others. Students will also hear recordings of native speakers and examine texts written for (language) speaking readers as they build and strengthen their skills. Throughout the course, important cultural features are highlighted that assist students in communication and help them understand the values of the speakers of the language. These can include unique holidays, foods, manners and body language.

ACCELERATED SPANISH 2

Semesters: 2
Prerequisite: Teacher recommendation
Level: 9, 10, 11, 12
Credit: 1/2 per semester
Taxonomy: 435/436

In Accelerated Spanish 2, students work at faster pace to expand their vocabulary and develop more effective speaking and writing skills. Taking this course will prepare students for Accelerated Spanish III, a pre-AP course for Spanish Language and Culture.

COURSE INDEX

HONORS ACCELERATED SPANISH 3

Semesters: 2

Prerequisite: Teacher Recommendation; Accelerated Spanish 2 highly recommended.

Level: 9, 10, 11, 12

Credit: 1/2 per semester

Taxonomy: 439/440

In Accelerated Spanish 3, students are introduced to the skills that will help them succeed on the AP® Spanish Language and Culture Exam. The course is designed to prepare students to use Spanish to communicate for a variety of purposes and to appreciate the diverse cultures of the Spanish speaking world. Students will review key concepts from Spanish II and will learn to express opinions and reactions and describe future events. Students will develop and refine their formal and informal speaking and writing skills as well as interpretive skills of reading and listening. This course moves at an accelerated pace and explores concepts to a greater depth than the regular Spanish III course. It also challenges students to develop advanced communication and synthesis skills assessed on the AP Spanish Language test.



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NON-DEPARTMENTAL COURSES

AVID (Freshmen through Senior Years)

Semesters: 2

Levels: 9-12

Credit: 1/2 elective credit per semester

Taxonomy: 871/872 Freshmen AVID, 873/874

Sophomore AVID, 875/876 Junior AVID, 877/878 Senior AVID

The overall goal for students enrolled in Advancement Via Individual Determination (AVID) is to develop/strengthen fundamental academic skills, to prepare students for four-year college eligibility and readiness. This elective course provides tutorial support, writing instruction, reinforcement of study skills, time management techniques, and motivational activities. There is an emphasis on analytical writing, preparation for college entrance and placement exams, study and test-taking skills, note taking and research. This course is offered in limited capacity (currently at Crystal Lake Central & Crystal Lake South High Schools)

SEMINAR (Freshmen through Senior Years)

Duration: 9 weeks

Levels: 9-12

Taxonomy: 863/864 Freshmen Seminar, 865/866 Sophomore Seminar, 867/868 Junior Seminar, and 869/870 Senior Seminar

Life is about having a plan so that you can take the proper steps to achieve your goals. This four-year seminar series is where you will identify your goals, create your plan and learn the skills necessary to help your high school and post-secondary plans become a reality. During seminar, you will explore your current skills, connect those skills to careers and learn what academic options are available post high school to help you reach those career goals. You will establish a planning portfolio and revise this portfolio each year of high school so that you are prepared to make informed decisions during senior year.

Seminar is led by counselors and serves as the venue where the primary counseling curriculum is delivered. The counseling curriculum addresses academic, post-secondary and social emotional issues that students face at the various stages of high school.

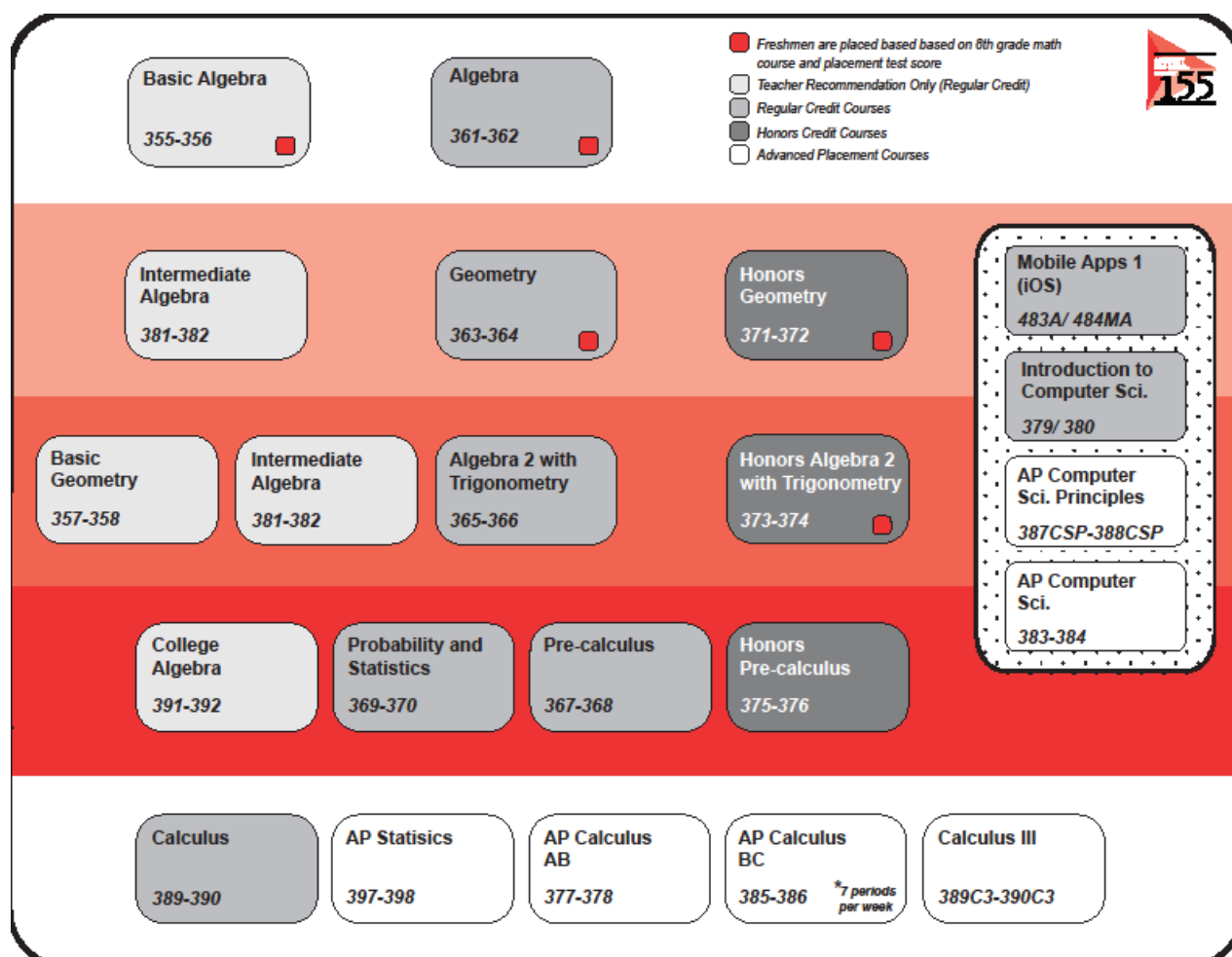
Grades and credit are not awarded in these courses.

COURSE INDEX



STEM

MATHEMATICS COURSE SEQUENCE



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MATHEMATICS

Direct Instruction

MATH I

Semesters: 2

Prerequisite: Approval of Special Education division leader and staff conference recommendation is required.

Level: 9

Credit: 1/2 per semester

Taxonomy: 019/020

Emphasis is on the understanding of fundamental mathematical operations. The main areas of concentration are addition, subtraction, multiplication, and division. Additional focus is given to fractions, decimals, and percents. Placement is only available through staff conference recommendation.

PRE-ALGEBRA

Semesters: 2

Prerequisite: Approval of Special Education division leader and staff conference recommendation.

Level: 9, 10

Credit: 1/2 per semester

Taxonomy: 021/022

This course builds students' skills in the areas of order of operations, variables and expressions, mathematical properties, and equations in preparation for the curriculum in an algebra class. Placement is only available through staff conference recommendation.

ALGEBRA

Semesters: 2

Prerequisite: Approval of Special Education division leader and staff conference recommendation.

Level: 9, 10, 11

Credit: 1/2 per semester

Taxonomy: 023/024

Algebra skills are developed through attention to the following topics: order of operations, variables & expressions, solving equations and inequalities, manipulating polynomials, simplifying rational expressions and solving rational equations, and solving quadratic equations. Placement is only available through staff conference recommendation.

COURSE INDEX

Basic

ALGEBRA

Semesters: 2
Prerequisite: Teacher recommendation
Level: 9
Credit: 1/2 per semester
Taxonomy: 355/356

This course represents a basic approach towards Algebra. It mirrors the general Algebra course, but not all topics are studied at the same depth. Topics include, but are not limited to order of operations, variables & expressions, solving one and two variable equations and inequalities, operations with linear equations, performing operations on polynomials – including multiplying binomials, factoring trinomials and solving quadratic equations.

General

ALGEBRA

Semesters: 2
Prerequisite: Teacher recommendation
Level: 9
Credit: 1/2 per semester
Taxonomy: 361/362

This is a foundation course for further high school mathematics. An understanding of algebra is developed through study of the following topics: order of operations, variables & expressions, solving one and two variable equations and inequalities, operations with linear equations, performing operations on polynomials – including multiplying binomials, factoring trinomials and solving quadratic equations.

GEOMETRY

Semesters: 2
Prerequisite: Algebra
Level: 9, 10, 11
Credit: 1/2 per semester
Taxonomy: 363/364

Geometry teaches the students to think accurately, logically, critically, and to set forth their thoughts in a well-organized, orderly fashion. Algebra is used extensively throughout the course.

Honors

HONORS GEOMETRY

Semesters: 2
Prerequisite: Algebra
Level: 9, 10
Credit: 1/2 per semester
Taxonomy: 371/372

Geometry teaches the students to think accurately, logically, critically, and to set forth their thoughts in a well-organized, orderly fashion. Algebra is used extensively throughout the course. Students are expected to think at a more critical level than in regular geometry.

*A graphing calculator is required for this course.

HONORS ALGEBRA II WITH TRIGONOMETRY

Semesters: 2
Prerequisite: H Geometry or teacher recommendation
Level: 9, 10, 11
Credit: 1/2 per semester
Taxonomy: 373/374

Topics of algebra such as exponents, radicals, functions and relations, quadratic equations, graphs and word problems are studied in this course. Topics of trigonometry include the study of the six trigonometric functions, solutions of triangles, radians, graphs, identities and equations.

*A graphing calculator is required for this course.

COURSE INDEX

HONORS PRECALCULUS

Semesters: 2

Prerequisite: H Algebra II with Trigonometry or teacher recommendation

Level: 9, 10, 11, 12

Credit: 1/2 per semester

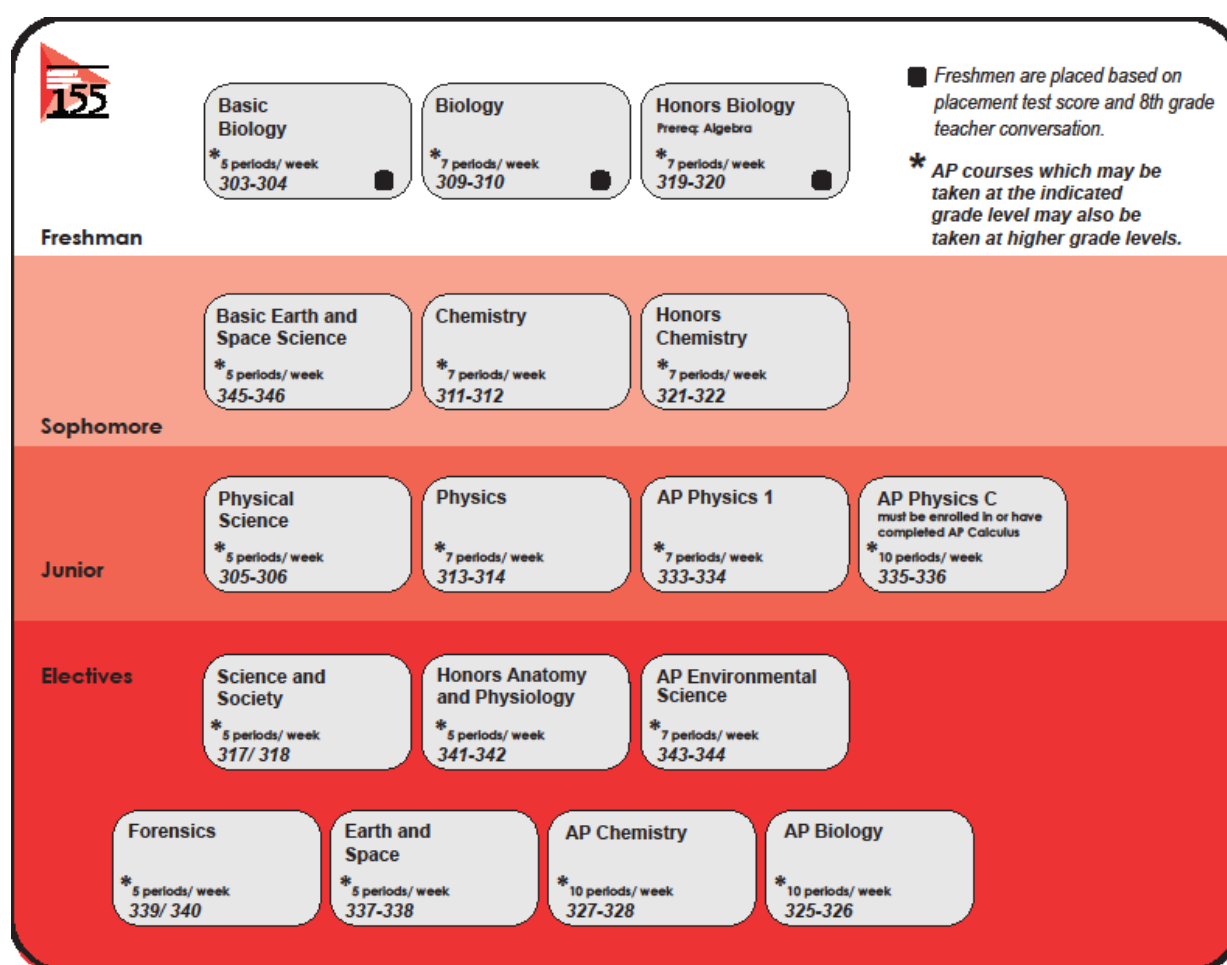
Taxonomy: 375/376

This rigorous course includes material on families of functions, systems of equations, logarithms, trigonometry, conics, sequences, series, and limits. This course is specifically designed for students planning to take AP or college level calculus. Students are expected to think at a more critical level than in regular precalculus.

*A graphing calculator is required for this course.

COURSE INDEX

SCIENCE COURSE SEQUENCE



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SCIENCE



Basic

BIOLOGY

Semesters: 2
Prerequisite: Teacher recommendation
Level: 9
Periods: 5 per week
Credit: 1/2 per semester
Taxonomy: 303/304

This course is designed to develop an interest in biology, develop laboratory skills, and to improve critical thinking. This science class studies the four pillars of biology: ecology, cells, genetics, and evolution.

General

BIOLOGY

Semesters: 2
Prerequisite: Teacher recommendation
Level: 9
Periods: 7 per week
Credit: 1/2 per semester
Taxonomy: 309/310

This science class studies the four pillars of biology: ecology, cells, genetics, and evolution. Students are expected to apply a higher level of critical thinking and independence than at the basic level.

COURSE INDEX

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Honors

HONORS BIOLOGY

Semesters: 2

Prerequisite: Algebra, placement tests and teacher recommendation.

Level: 9

Periods: 7 per week

Credit: 1/2 per semester

Taxonomy: 319/320

This science class studies the four pillars of biology: ecology, cells, genetics, and evolution. Students are expected to apply a higher level of critical thinking and independence than at the general level.

HONORS CHEMISTRY

Semesters: 2

Prerequisite: Geometry and teacher recommendation.

Level: 9 (with successful completion of summer Honors Biology) 10

Periods: 7 per week

Credit: 1/2 per semester

Taxonomy: 321/322

This is a course which involves the student with materials and methods of chemistry. The classroom activities are

centered around laboratory investigations, lectures, and demonstrations. In this course, students will learn the structure and function of matter, and how to measure matter through a variety of different methods. Students are expected to apply a higher level of critical thinking and independence than at the general level.



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WELLNESS

PHYSICAL EDUCATION



Physical Education offer students a unique opportunity to develop physically, emotionally, mentally, and socially. Physical Education is required of all students for four years. All sophomore students are also required by the State of Illinois to take a series of four fitness tests. Students will be assessed each year on fitness related concepts including the pacer test, push-ups, planks, and the sit and reach. Curriculum will focus on the health related fitness components of muscular strength, muscular endurance, flexibility, and cardiovascular fitness.

FRESHMAN COED

Semesters: 2
Level: 9
Credit: 1/4
Taxonomy: 713/714

This course introduces the cognitive and mechanical concepts of team, individual, and fitness activities. The concepts of fitness testing and weights are also introduced.

ADAPTIVE PHYSICAL EDUCATION

Semesters: 1
Prerequisite: Physician referral and the recommendation/approval of the division leader is required.
Level: 9, 10, 11, and 12
Credit: 1/4
Taxonomy: 711/712

This coed course is designed to meet the individualized needs of participants.

COURSE INDEX