

This course-planning guide has been prepared to help students plan for the upcoming school year at Columbia Heights High School.

It is important for students to consult with parents, teachers, advisors, and their grade-level dean to plan a track of studies that will meet CHHS graduation requirements as well as prepare for college and career success.

When selecting courses, students should be aware that there are courses in the curriculum that are designed for specific levels of ability, and some have prerequisites. Each course description in this guide is written to assist students in selecting the appropriately challenging courses.

Please note that registering for specific courses does not guarantee that you will be placed into those classes. Some schedules may have to be adjusted due to conflicts with course requests. Please have a back-up plan in case it is needed.

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**Course Description
Key**

The information for each course is listed the same way.
For example:

Course Name		Course #
# of semesters	Grade	# of credits

Words you might need to know from this course guide:

- Concurrent – at the same time
- Prerequisite – need to complete before
- Rigorous – challenging, difficult
- Consent – permission
- Exempt – excused, don’t need to take

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Credit Requirements

The total number of credits necessary for graduation is 27. The practical arts requirement may be fulfilled with Business Education, Family and Consumer Science, or Engineering and Technology Education courses. The fine arts requirement includes courses from Visual & Media Arts and Music. World Language credits count as electives for high school graduation.

Subject	CHHS Graduation Req. Credits	College Application Readiness
English	4 credits	4 credits
Social Studies	3.5	4
Math	3	4
Science	3	4
Physical Education	1	1+
Health	0.5	0.5+
Practical Arts	1	1+
Fine Arts	1	1+
World Language	0	2+
Electives	10	N/A
Total	27	NA

Students who are short credits at the end of grades 9, 10, and 11 are expected to make up the gap in alternative programs before the start of the senior year. Credit can be earned at an ALC (Alternative Learning Center) or through summer school.

Testing at CHHS

Grade	Test(s)
10	<ul style="list-style-type: none">· MCA Reading· MCA Science (if student is in Biology)· AP (Advanced Placement)· PSAT 10
11	<ul style="list-style-type: none">· MCA Math· MCA Science (if student is in Biology)· SAT (college entrance exam)· AP (Advanced Placement)· PSAT (National Merit Requirement)
12	<ul style="list-style-type: none">· AP (Advanced Placement)

Pass/Fail Credits

A student may elect to take some coursework on a pass/fail basis under the following guidelines or Principal's discretion:

1. A student may elect to take two semesters of elective pass/fail credits during high school.
2. The pass/fail option must be chosen by week six of the semester grading period. Once the decision for pass/fail has been made, it may not be changed.
3. Required courses (or any course where credit is counted toward required course credits) may not be taken pass/fail.
4. Pass credits will not be included when computing GPA. A fail will impact the student's GPA.
5. Classes that are taken pass/fail will not count towards honor ranking.

Earning Alternative Credits

Students choosing to earn credit through alternative options (internet, ALC, PSEO) need to provide documentation of completed credits to the Deans' office for credits to be evaluated by CHHS.

Online Credit Recovery

Students who are behind in credits have the opportunity to make up credits in core classes. See your Dean for more details.

NCAA Athletic Eligibility

To participate in athletics at a Division 1 or 2 college, you must be certified by the NCAA. There is a minimum GPA to be eligible. For more information, go to www.eligibilitycenter.org.

Disclaimer

Course availability may be subject to change due to course enrollment and scheduling conflicts.

Student Aides

Student Aide positions are available, for juniors or seniors only, in classrooms or the office. Students must be on-track for graduation before being considered as a Student Aide. Serving as a Student Aide is NOT for credit.

PSEO (Post-Secondary Enrollment Options)

The Post-Secondary Enrollment Options program allows qualified high school students in grades 10-12 to take courses at a liberal art, community or technical college, a university, or a trade school for dual (high school and college) credit. Courses may be on campus or online. The tuition, fees, and required textbooks are free to students unless remedial (below 100 level) courses are taken. Students must follow the steps below in order to participate in this program:

1. Please let your Dean know you are interested in PSEO before February 15th.
2. Complete applications to prospective college(s).
3. Complete and sign the PSEO enrollment forms (available online or from your Dean).
4. Work with your Dean to choose courses that fulfill your credit requirements for graduation.
5. Credits received at the post-secondary institution are on your college transcript as well as your high school transcript.
6. You must tell your Dean immediately if you withdraw from a college class.

CLEP (College Level Placement Exam)

The CLEP offers students the opportunity to earn college credit by testing and earning a qualifying score in over 34 different subject areas. The advantage to the student is progressing to a higher level of courses faster and by shortening the amount of time it would take to earn a college degree. See your dean for additional information on CLEP.



Accuplacer

The Accuplacer tests in Math and English are used for placement in some high school courses and for college course placement in many MN colleges and universities. Scores from the Accuplacer test in high school will be good for two years, so students will know in high school if their Math and English skills are strong enough to go directly into credit-bearing courses in college.

Advanced Placement (AP) Courses



Many Advanced Placement (AP) courses are offered at Columbia Heights High School. Students may earn both high school credit and college credit in these courses if they pass the AP test at the end of the year.

AP students must be self-directed learners with strong reading and writing abilities. Students are expected to take the AP exam in May. Consistent attendance is critical for success in AP courses. Students should be prepared for a significant amount of homework and high expectations for class involvement. AP courses require a separate application process prior to regular registration to ensure that prerequisites are met. AP courses are all a yearlong unless otherwise noted. If you would like to drop an AP course from your schedule you have to do it before June 1, 2021.

AP Art History
AP Biology
AP Calculus AB
AP Calculus BC
AP Chemistry
AP English Literature and Composition
AP Comparative Government and Politics*
AP US Government and Politics*
AP Physics
AP Spanish Language
AP Statistics
AP Studio Arts
AP US History
AP World History

* = single semester course

Honor Ranking

Students receive a regular class rank based on the GPA of students in their respective class. If eligible, students may also receive an Honor Ranking that compares qualifying students against others who have taken a challenging schedule of classes in high school. These students will be recognized at an annual Academic Awards ceremony and at graduation. To qualify:

1. Students must successfully complete at least 4 credits of AP classes throughout grades 10-12.
2. Students must earn a grade of C or better for an AP class to count toward the Honor Ranking. Courses taken pass/fail will not count towards Honor Ranking.

College Planning with Naviance



Naviance is a comprehensive K-12 college and career readiness solution that helps schools align student strengths and interests to postsecondary goals, improving student outcomes, and connecting learning to life. Naviance is an online college preparation tool that is available to CHHS students and their families.

To access Naviance, go to the following website:

<https://student.naviance.com/columbiaheights>

username = your school username

password = chpsSTUDENT ID#

There is also a Naviance app that is compatible with most cell phones. With the Naviance App, you can:

- Research over 4,200 colleges and save colleges of interest
- Search for scholarships
- Update and add tasks
- Communicate with your Dean of Students
- Email a college directly from the app
- Map the location of colleges and plan visits



College Possible



This after school program for juniors and seniors is hosted at the high school. Over the course of two years, students explore potential colleges, majors, and scholarships. College Possible seniors work on their college application essays as well. Graduates from the program have earned substantially more in scholarship dollars for college than those not in the program. Students apply to be part of College Possible in their 10th grade year. Watch for announcements about informational meetings during the late winter/early spring.

For more information, talk with your Dean of Students.

Concurrent Enrollment (Early College)



We offer the highest level of opportunities for students at Columbia Heights High School. Since 2000, we have been offering Advanced Placement (AP) courses for motivated students. We now have an agreement with Anoka-Ramsey Community College so our students can earn free credits toward a two-year Associate's Degree while in high school.

Students need to plan for college credit classes beginning with course selection for ninth grade. All Anoka Ramsey courses are noted throughout the course offerings with an AR preceding the course number.

Available Early College courses include:

- Introduction to Art
- College Writing / Critical Reading
- Pre-Calculus
- Unifying Concepts in Biology
- Environmental Science and Lab
- College Algebra
- Interpretive Chemistry
- General Physics 1
- American Politics and Government

For more information, go to our website or talk with your student's Dean.



Northeast Metro 916



Northeast Metro 916 prepares people for careers in business, industry, health, and public services by integrating academic learning with technical education. The center enables eleventh and twelfth-grade high school students to explore career options through a wide range of course offerings. Students earn two different kinds of credit at the same time while attending the center. First, students receive credits toward high school graduation for satisfactorily completing the school year at Northeast Metro Secondary Technical Center. Century Community and Technical College level credits may also be earned.

Available courses include:

- Animation and Game Design
- Information Technology
- Animal Science
- Dental Occupations
- Emergency Medical Technician
- Medical Careers
- Youth Apprenticeship/Internship
- Cosmetology
- Law Enforcement / Criminal Justice
- Environmental Science and Natural Resources
- Construction Occupations
- Auto Dismantling
- Automotive Technology
- Diesel Trucks and Engine Technology
- Entertainment, E-Marketing, and Event Planning

For more information, see the school website or contact your Dean. NE Metro 916 courses need to be scheduled at the same time as regular course registration.

Interdisciplinary Courses

All courses in this section count toward the elective credits required for graduation.



AVID (Advancement Via Individual Determination)

Gr 9 #0250, 0251
Gr 10 #0252, 0253
Gr 11 #0254, 0255
Gr 12 #0256, 0257

2 sem. Grade 9, 10, 11, 12 1 credit

Prerequisite: Concurrent enrollment in a Pre-AP, AP, or advanced math course and an accepted AVID application.

The AVID elective class targets students in the academic middle (B & C students) who have the desire to go to college and the willingness to work hard. AVID is for students who are serious about succeeding in rigorous coursework but need extra support to take on the challenge. Students will be taught the organizational, time management, test-taking, and study skills necessary for success in college preparatory courses. AVID will provide help in reading, inquiry, and analytical writing as well as promote motivation and academic survival skills. To support students in their concurrent coursework, time will also be dedicated to intentional study and tutoring.

In the upper level AVID classes, students participate in sophisticated tutorial sessions, practice reading and writing skills, and actively prepare for college. Projects include making a college choice, application essays, studying financial aid, and seeking scholarships.

Work Seminar #1389
1 sem. Grade 9, 10, 11, 12 0.5 credit
**Depending on availability, 11th and 12th grade students get priority.*

The work seminar course prepares students to be effective employees in the workplace and offers adult transition skills. This course introduces students to the following topics: labor laws, self-exploration, understanding paychecks and taxes, the importance of responsible credit card use, workplace safety, personal insurance basics, job interviewing skills, and general workplace expectations. Work seminar is a prerequisite to participation in the work experience program.

Work Experience #1376
1 or 2 sem. Grade 11, 12 .5 - 2 credits
Prerequisite: By application only. The number of students enrolled will be based on employment and teacher approval. Students must be 16 years old to participate and parental approval is required to be considered for this course. Hours worked will determine the number of credits..

The work experience course is for students who have completed the work seminar course, and are employed and work at least 10 hours per week. This course provides an opportunity for students to learn and apply workplace skills in an authentic community setting (depending on circumstances, students

could potentially be able to leave school early to go to their worksite). Students will be responsible for submitting pay stubs on a regular basis to the teacher of work-based learning. Students, families, and employers will be required to agree to specific criteria to participate in this program.

Spring College Prep 11 #1803
1 sem. Grade 11 0.5 credit

Spring semester unique college prep course offered to 11th graders who are motivated to apply to college in the fall. The course places an emphasis on the 4-year university track with intensive SAT test strategy and prep, financial aid literacy, FAFSA walk-throughs, application material unit, a campus visit, and a plan put in place for college applications in the fall.

Fall College Workshop 12 #1804
1 sem. Grade 12 0.5 credit

Fall semester unique college seminar course offered to 12th graders pursuing the college application process. In this workshop-style class, 12th graders will get time and support to research institutions to apply to, attend college fairs, access application fee waivers, fill out and submit college applications, learn about financial aid available to them, fill out the FAFSA find and fill out scholarships, and sharpen the skills they'll need to be successful in a college environment.

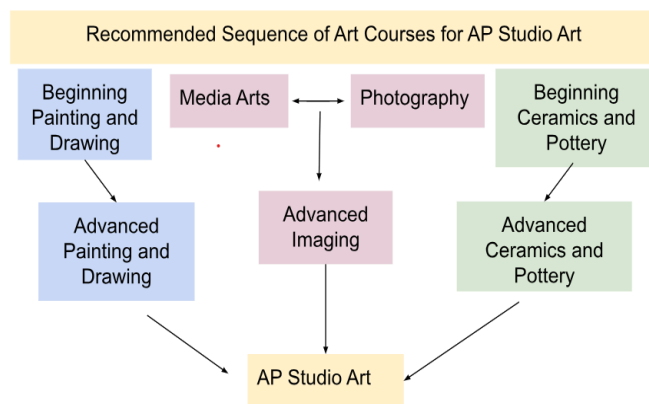
College Readiness: Math Support #0270, 0271
2 sem. Grade 9 1 credit
Recommended concurrently with Intermediate Algebra for students with no other support classes.

This course will support 9th grade students in the transition from middle to high school. Students will explore academic, behavioral, and study skills necessary for success in high school. This class provides targeted support for all students in Intermediate Algebra.



Visual & Media Arts

All courses in this section count toward the fine arts requirements for graduation.



Basic Design #0101
1 sem. Grades 9, 10, 11, 12 0.5 credit

This beginner's course introduces students to various professions in the design world. Students will make projects in the fields of illustration, graphic design, industrial design, architecture and others. This course is a hybrid that utilizes both digital and traditional tools. Students will learn how to use the elements and principles of design to create 2D and 3D projects. Students will produce products that explore both decorative and functional purposes. In reflections, work sheets, and critiques, students will learn how to utilize feedback and multiple attempts to refine and reshape a design idea.

Sculpture #0121
1 sem. Grades 9, 10, 11, 12 0.5 credit

Sculpture is a course that introduces students to the creation of form in a variety of materials such as paper, paper mache, wood, and metal. This course emphasizes 3D conceptualization, problem solving, and development. This is a stand-alone course that doesn't have a prerequisite.

Beginning Ceramics & Pottery #0111
1 sem. Grades 9, 10, 11, 12 0.5 credit

Beginning Ceramics and Pottery will include an introduction into the areas of ceramics, sculpture, and pottery. There will be an emphasis on design, decorating techniques, and the history of ceramics. Students will develop their hand-building skills while being introduced to the potter's wheel.

Advanced Ceramics & Pottery #0112
1 sem. Grades 10, 11, 12 0.5 credit
Prerequisite: Beginning Ceramics & Pottery

The development of advanced pottery forms will be the focus of this studio course. It is for students who are interested in developing personal style and further pottery skills in their work. Work will be developed by hand, wheel, and combination techniques. This class is not open to freshmen. The history of pottery and ceramics will be a major focus throughout this course. Self-reflection about the work produced is part of this creative process. This course is recommended prior to AP Studio Art.

Beginning Painting & Drawing #0100
1 sem. Grades 9, 10, 11, 12 0.5 credit

This beginner's course helps you build foundational skills in observation and imagination that are used in the creation of successful artistic compositions. A variety of materials such as acrylic paint, charcoal, drawing pencils and watercolor will be introduced. You will learn art concepts and vocabulary while investigating different genres and movements from art history. This course balances learning fine art techniques with fun, interactive choice projects. Some of the projects that are produced in this class are still life drawings, portraits, and conceptual pieces.

Advanced Painting & Drawing #0102, 0103
1 sem. Grades 10, 11, 12 0.5 credit
Prerequisite: Beginning Painting & Drawing

This two-semester class is for students who want to further sharpen their art skills in painting and drawing. Students will discuss conceptual art themes and increase their exposure to themes from art history. Students will produce a personal sketchbook to develop skills in realistic drawing such as shading, measuring, and capturing gestures. Students will develop an artist statement to explore their emerging personal vision and will prepare works of art to be displayed or submitted to various art opportunities. Students will explore the ethics of art including what constitutes recontextualization. Eventually, students will work in the medium of their choice and can refine their ideas through critique and personalized feedback. This course is recommended prior to AP Studio Art.

Media Arts #0124
1 sem. Grades 9, 10, 11, 12 0.5 credit

This course is the prerequisite for all media arts classes. Students are exposed to a variety of media arts, including photography, video, audio, computer/digital arts, and interactive media. Students will learn how to use media arts as a means to communicate and express one's perspectives, feelings, and

ideas. Students will learn how to critically interpret and evaluate media within aesthetic, cultural, and historical contexts. This course will assist students to consider their own work and to write self-reflections.

Photography #0126
1 sem. Grades 9, 10, 11, 12 0.5 credit

In this course, students learn to interpret and apply the language of art in producing fine art photographs. Through research, practice, and creation, students learn the basics of digital photography. The course will cover camera settings and controls, shot types and framing a photo, image selection, and the display of photographs through printing techniques and online galleries. Students will gain a historical perspective by learning about particular artists as well as photographic genres like portraiture, documentary, commercial, wildlife and nature, fine art photography, etc.

Advanced Imaging #0125
1 sem. Grades 10, 11, 12 0.5 credit
Prerequisite: Media Arts or Photography

In Design Studio, students will study design principles and combine creative thinking with art production. These skills will be applied to projects that fit into today's visual culture: books, magazines, posters, advertising, logos, packaging, and more. Students will practice artistic problem solving while communicating like a professional using a variety of art materials. This course is recommended prior to AP Studio Art.

AP Studio Arts #0128, 0129
2 sem. Grade 11, 12 1 credit
Prerequisite: AP application to show that the following requirements have been completed:
*Advanced Painting & Drawing or Advanced Imaging or Advanced Ceramics & Pottery and **Instructor permission***

This course involves artistically advanced students developing a portfolio, which shows both the breadth of their artistic experience, as well as their ability to explore one particular concentration in a series. Students will develop a portfolio that can earn college credit at the end of the year. The portfolio can also be used during a college entrance interview. Portfolios will consist of 20-25 finished works that excel in quality, concentration in a subject, and breadth in terms of materials. Portfolios will be submitted in either a 2D design or 2D drawing format. A travel opportunity is a component of this class.

ARCC Introduction to Art #COL1000
 1 sem. Grade 11, 12 0.5 credit
See your Dean for qualifications

This community college course is the equivalent of Anoka Ramsey Community College Introduction to Art: Art 1100 course. Introduction to Art is the historical and topical study of art and its relationship to culture and society. This course incorporates the extensive use of visual materials to teach the essentials and aesthetics of art, civilization, and daily life.



Business

Courses in this section count toward the practical arts requirements for graduation.

Business 101 #0233
 1 sem. Grades 9, 10, 11, 12 0.5 credit

This “step 1” course will provide a foundation and lead into higher level business courses. There will be a heavy focus on developing an entrepreneurial mindset. Students will learn about past entrepreneurs and different pathways to entrepreneurship. Students will generate business ideas and execute a business plan. Units of study will also include organizing a business, understanding economic principles, and exploring business careers. This course will incorporate proper touch typing and digital literacy as well as applying authentic and relevant business skills in real world applications.

Computer Applications #0235
 1 sem. Grades 10, 11, 12 0.5 credit
Prerequisite: Ability to type efficiently

This creative, hands-on course is designed to give students practical computer skills needed for college preparation or

personal/business use. This multimedia class will use the Microsoft Office suite to teach students advanced skills in word processing/desktop publishing, the basics of Excel spreadsheets and the presentation tools within PowerPoint. Students will learn to use the computer as a tool to perform multiple tasks quickly and efficiently to make all work look professional.

Accounting #0201
 1 sem. Grade 10, 11, 12 0.5 credit

Do you have a desire to own or manage a business? If so, accounting is for you! Accounting lays a foundation by teaching you how to analyze and record basic accounting transactions. This course is designed to give students an understanding of the daily operations of proprietorships, partnerships, and a merchandising business. This is a must have class for those students planning on a business major in college and/or for anyone wanting to run their own business one day.

Personal Money Management #0212
 1 sem. Grades 10, 11, 12 0.5 credit

This course will help students find out where money goes, how to develop and attain goals, manage a budget, maintain a checking account, and save money. Other topics will include modern digital banking, investing, taxes, credit cards, borrowing money, insurance, buying a house, and buying a car. This is a very practical, hands-on course to prepare students for the real world. (This is a graduation requirement for the class of 2028 to take during their 10th, 11th, or 12th grade year).

Marketing #0220
 1 sem. Grade 9, 10, 11, 12 0.5 credit

Students will learn the fundamental concepts of product and service development. Units of study will include branding, marketing mix, market segmentation, market placement, pricing, promotion, marketing careers, and market research. Students will design, plan, promote and execute a marketing plan for a variety of products.



English Learners (EL)

In the English Learner (EL) program, students move through five levels – from beginning to advanced. This program helps students develop the English speaking, listening, reading, and writing skills to succeed academically in high school.

EL Level 1	<ul style="list-style-type: none"> · Beginning Language Development · Language Development through Science · Language Development through Social Studies · Language Development through Mathematics, Sheltered Algebra, or Sheltered Geometry · Language Development through Reading
EL Level 2	<ul style="list-style-type: none"> · Intermediate Language Development · Sheltered Social Studies · Sheltered Algebra or Sheltered Geometry · Sheltered Environmental Science
EL Level 3	<ul style="list-style-type: none"> · Sheltered Biology · Reading Strategies · Sheltered Algebra
EL Level 4	<ul style="list-style-type: none"> · Advanced Language Development

EL 1: Beginning Language Development #0350A, 0351A
2 sem. Grades 9, 10, 11, 12 1 credit
Prerequisite: Placement test

In this course, students learn everyday vocabulary and use essential language skills to participate in high school activities. Students develop English skills through lessons driven by teachers and students as well as computer assisted learning. Students will focus on reading, writing, speaking and listening to English. This is an elective credit.

Level 1 Language Development Through Science #0350C, 0351C
2 sem. Grades 9, 10, 11, 12 1 credit

This course is designed to help students build English language skills while they develop an understanding of science concepts. Students will study the history and nature of science, earth science, physical science, life science and basic health concepts.

Students will build a rich vocabulary of scientific terms and an understanding of the scientific method. This is an elective credit.

Level 1 Language Development Through Social Studies #0350B, 0351B
2 sem. Grades 9, 10, 11, 12 1 credit

This course is designed to help students build English language skills while they develop an understanding of social studies concepts. Students will study United States and world history, geography (maps) and government. Pictures, simple reading and writing tasks along with class discussions will be used to help students understand these concepts. This is an elective credit.

Level 1 Language Development Through Mathematics #0350D, 0351D
2 sem. Grades 9, 10, 11, 12 1 credit

This course is designed to help students build English language skills while they develop an understanding of mathematical concepts. Students take this course at the same time as they take sheltered Algebra. This is an elective credit.

Level 1 Language Development Through Reading #0350E, 0351E
2 sem. Grades 9, 10, 11, 12 1 credit

This course is designed to help students build English language skills while they develop reading strategies and skills in vocabulary, decoding, and fluency. This is an elective credit.

EL 2: Intermediate Language Development #0360A, 0361A
2 sem. Grades 9, 10, 11, 12 1 credit
Prerequisite: Placement test or EL Level 1

This is an intermediate-level course where students learn key vocabulary words, write paragraphs and essays, read texts developed for EL students, and participate in classroom discussions. The course includes thematic units with fiction and non-fiction texts.

Sheltered Social Studies #0360B, 0361B
2 sem. Grade 9, 10, 11, 12 1 credit
Prerequisite: for EL Level 2 or higher

Students in this class will study 9th grade Geography and Civics. Students enrolled in this class are receiving EL services. The class will focus on reading, writing and learning strategies as well as vocabulary comprehension.

Sheltered Algebra #0710, 0711
 2 sem. Grades 9, 10, 11, 12 1 credit
Prerequisite: EL level 1, 2

In this team-taught course, students study algebra, while also developing fluency in the languages of mathematics and English. Areas of study include solving and graphing linear and quadratic equations, manipulating polynomials and exploring exponential functions. Students in this class earn 1 math credit.

Sheltered Geometry #0712, 0713
 2 sem. Grades 9, 10, 11, 12 1 credit
Prerequisite: EL level 1, 2 and successfully completed Sheltered Algebra.

In this team-taught course, students study Geometry, while also developing fluency in Mathematics and English. Areas of study include logic and 2 & 3 dimensional objects. Students in this class earn 1 math credit.

Sheltered Environmental Science #0390C, 0391C
 2 sem. Grade 9, 10, 11, 12 1 credit
Prerequisite: for EL Level 2 or higher

In this team-taught course, students study Earth and Physical Science concepts while developing fluency in speaking, reading, writing and listening. Areas of study will include chemistry, geology, and ecology. Students in this class earn 1 science credit.

EL 3: Reading Strategies #0370A, 0371A
 2 sem. Grade 9, 10, 11, 12 2 credits
Prerequisite: Placement test or EL Level 2

This is a daily, advanced EL course in which students expand their academic vocabulary, write essays, and develop their reading comprehension skills. Students use the Read 180 program to improve their reading fluency and comprehension. In addition, students will continue to work on grammar, spelling, and the mechanics of writing. Students earn 2 English credits for this course.

Sheltered Biology #0391A, 0391B
 2 sem. Grade 9, 10, 11, 12 1 credit
Prerequisite: EL Level 3 or higher

In this team-taught course, students study a variety of life science concepts through lab experiments, reading, and technology. The class will focus on developing fluency in speaking, reading, writing and listening. Topics covered include the nature of science, cells, DNA, genetics, evolution, biodiversity, and the human body. Students in this class earn 1 biology science credit that is required for graduation.

EL 4: Advanced Language Development #0380A, 0381A
 2 sem. Grade 9, 10, 11, 12 1 credit
Prerequisite: Placement test of EL Level 3

This course builds the academic reading and writing skills necessary for meeting the demands of high school coursework. Students will read a variety of texts including nonfiction, novels, and short stories. Students will plan, organize, and write narrative, descriptive, and persuasive writing. They will learn about and practice revising and editing their own work and the work of peers. Students in this course earn 1 English credit.

Engineering & Technology Education

Engineering and Technology Education courses prepare students to live in and compete in the highly competitive technological world of tomorrow.

These courses can also provide general knowledge about technology to help people make better decisions about the future. Courses in this department count towards the practical arts graduation requirement.

Introduction to Engineering #0606
 1 sem. Grade 9, 10, 11, 12 .5 credit

In Introduction to Engineering students are introduced to the engineering design process. You'll apply math, science, & engineering principles to identify and design solutions to a variety of real-world problems. You'll work both individually and in collaborative teams to develop and document design solutions using Engineering Notebooks and 3D modeling software.



TV and Media Broadcasting #0635, 0636
 2 sem. Grade 10, 11, 12 1 credits
 *TV and Media Broadcasting can be taken more than once.

In this class, students produce two schoolwide broadcast news shows: The Hylander News Network (HNN) Morning Show and The HNN Showcase. Students will practice journalism techniques including pitching, outlining, scripting, interviewing, and reporting. Students will also learn how to photograph for television, shoot high-quality video footage, effectively capture corresponding audio, and use professional video and audio editing software to produce the broadcast shows.

Multimedia Production #0642
 1 sem. Grade 9, 10, 11, 12 0.5 credit

In this course, students will explore multimedia applications in the graphic and media arts industry. Screen-printing, digital printing, design software, laser engraving, vinyl graphics, basic TV production, and advertising will be studied. This project-oriented class includes designing and printing your own T-shirt, filming and editing videos and desktop publishing projects. Students will practice real world skills that can be used in future jobs.

Home Improvement #0692
 1 sem. Grade 9, 10, 11, 12 0.5 credit

This course explores a number of home improvement areas. Some of the topics covered will be: hand/power tools in the home shop, basic construction, blueprint reading, household electricity, plumbing, heating, ventilation and air conditioning. Students will have many opportunities to practice skills learned in this course.

CAD - Architectural Drafting #0601
 1 sem. Grade 9, 10, 11, 12 0.5 credit

Architectural drafting is designed to provide the student with an understanding of the high-tech field of computer aided design architectural drafting. This course will introduce the student to the use of the computer in the preparation of working drawings. Students will design houses that must meet codes and specifications with the highest standards for quality and precision. Students will develop skills to create three-dimensional views of houses that include animation of the drawings from 3D CAD software (*Revit*). Students will use engineering tools including a CNC laser and 3D printer to produce models designed by students on the engineering design software.

Woodworking 1 A/B #0679, 0680
 2 sem. Grade 9, 10, 11, 12 1 credit

This is an introductory machine woodworking course. It will provide for safe usage of hand tools, portable power tools and woodworking machines such as the jointer, radial arm saw, band saw, surface sander, and table saw. Students will progress through woodworking projects that may include sporting equipment, clocks, small pieces of furniture and other pieces of cabinetry. This class is valuable for any student that enjoys working with wood or has a desire to develop skills transferable to a lifetime vocation.

Woodworking 2 A/B #0681, 0682
 2 sem. Grade 10, 11, 12 1 credit
Prerequisite: Woodworking 1

This course covers the theory and application of wood in furniture and cabinetmaking construction. Students explore the what, why, and how of woodworking. Woodworking 2 deals with the use of tools and machines along with their safe usage and proper maintenance. Students will build an end table and also have the opportunity to build and design their own project. This course will appeal to anyone who likes to work with woods as a hobby or is considering woodworking as a career.

Woodworking Lab #0683
 2 sem. Grade 11, 12 .5 credit
Prerequisite: Woodworking 1, Woodworking 2. See Instructor for Approval.

Woodworking Lab is a semester length course that is project-oriented with the student's interest areas being of primary consideration. Students will be able to design, layout and build their own project. The Woodworking Lab course is designed with the student's best interests in mind to provide opportunities and flexibility for motivated students to work on projects agreed upon with the instructor.

Home Wiring #0624
 1 sem. Grade 9, 10, 11, 12 0.5 credit

This course is an opportunity to learn to create electrical circuits. It is designed to provide students with the knowledge and skills required to construct the common wiring circuits found in the home and perform these exercises as the National Electric Code dictates. The students will gain practical experience wiring residential construction structures.

Computer Science

Computer Science courses provide students a look into the emerging world of technology. Students will gain skills in different computer languages to develop websites, mobile apps, and software programs.

These programs are directly related to high paying careers and opportunities after high school. Through project based learning, students have the ability to create their own programs and develop skills in a hands-on environment.

Intro to Coding #9115
1 sem. Grade 9, 10, 11, 12 0.5 credit

In Introduction to Coding students are introduced to the basics of computer science while learning applicable skills through the Python coding language. Students will learn the basics of logic, algorithms, and procedures while creating their own programs. Students will apply their knowledge to improve existing programs and develop new innovative solutions to real world problems.

Mobile App Design #0241
1 sem. Grade 9, 10, 11, 12 0.5 credit

This one-semester computer science course explores the dynamic world of mobile computing, with a focus on hands-on mobile app design and development using the MIT App Inventor 2 Integrated Development Environment (IDE). Students will learn how to write app specifications, how to design user-friendly app interfaces, and how to develop fully interactive mobile apps of increasing complexity using computer code.

In the final capstone project students will create a deployable, fully-functional mobile app that addresses a real-world problem of their choosing.

Web Design #0242
1 sem. Grade 9, 10, 11, 12 0.5 credit

This one-semester computer science course explores the world wide web (WWW), with a focus on hands-on web design and development in HTML, CSS, and JavaScript in a cloud-based Integrated Development Environment (IDE). Students will learn how to write website specifications, how to design user-friendly websites, and how to develop fully interactive web applications of increasing complexity using computer code.

English Language Arts

Select from 1 Required English Course Each Year	
9 th Grade	English 9 A/B · Honors English 9 A/B
10 th Grade	English 10 A/B Honors English 10 A/B
11 th Grade	English 11 A/B AP English
12 th Grade	English 12 A/B ARCC College Writing/Critical Reading

English 9 A/B #0300, 0301
2 sem. Grade 9 1 Credit

English 9 is a full-year required course. This course focuses on developing students' reading, writing, and critical-thinking skills. In this class, students will read and study a variety of short stories, novels, poems, and a play. They will also complete various writing assignments

Honors English 9 A/B #0336, 0337
2 sem. Grade 9 1 credit

This core English course focuses on essential thinking, reading, speaking and writing skills. Some of the units include: Narratives, character analysis, compare/contrast, and argument. Students will write in several genres. Choice reading outside of class is expected.

English 10 A/B #0305, 0306
2 sem. Grade 10 1 credit

English 10 is a full year required course for graduation. This course builds upon the skills from English 9 and further develops students' ability to analyze and write arguments as well as close reading skills. During the year students will read and study a variety of articles and stories, as well as other types of texts both assigned and independently chosen. They will also complete various writing assignments.

Honors English 10 A/B #0334, 0335
2 sem. Grade 10 1 credit

This is a core English course for grade 10. Students will write three required papers: a persuasive essay, argument, and a research paper. Students read short stories, a play, and non-fiction selections as examples of literature from various

cultures. Additionally, 10th graders will read non-fiction articles and practice the several levels of reading comprehension to prepare for the MCA reading test given in the spring. The course will help students determine the literal meaning, author bias, implied information and distinguishing between main and supporting details. Students will develop vocabulary skills during both terms. Choice reading outside of class is expected.

English 11 A/B #0309, 0310
2 sem. Grade 11 1 credit

This is a core course for all juniors not taking an AP English course. It focuses on literature study with emphasis on helping students improve their critical thinking, public speaking, and academic writing skills. Students will be expected to do reading and homework in and out of class. Additional choice reading is required.

English 12 #0313, 0319
2 sem. Grade 12 1 credit

This required course for seniors not enrolled in ARCC Critical Reading & College Writing is designed to help refine research skills, expand vocabulary, hone public speaking skills, and challenge critical thinking skills with higher-level fiction, nonfiction, and poetry. Additionally, exploration of identity by researching and writing a comprehensive scholarly paper is required for completion of this course.

Journalism #0324, 0326
2 sem. Grade 9, 10, 11, 12 2 credits

Journalism students will work collaboratively to produce The Heights Herald, Columbia Heights High School's student-run print newspaper (distributed triannually) and news website (updated monthly). Student editors who have previously taken the course will lead the new and returning student staff along with the class advisor/teacher to write and revise news, feature, and opinion stories as well as explore opportunities in promotion, advertising, photography, and editorial illustrations.

*TV and Media Broadcasting can be taken more than once.

Film Studies #0318
1 sem. Grade 10, 11, 12 0.5 credit
Prerequisite: Must pass English 9 A/B

Horror, romance, comedy, and more! Students will study the evolution of filmmaking and cinema through the ages from a historical, analytical, and genre-specific perspective. In-class time will consist of classic and contemporary feature film screenings, discussion, as well as learning the vocabulary needed to understand and appreciate the work done behind and

in front of the camera to make movie magic happen. Creative assessments such as screenwriting and video editing will be offered too.



Speaking (Speech Communications) #2300
1 sem. Grade 10, 11, 12 0.5 credit

This semester-long course is designed for students new to public speaking & oral communications. Thus, the first half of the course is a scaffolded approach, giving students a foundation in oral communications, principles, and successful experiences with quick speeches in front of the class or in small groups. Speech communication is designed to help students develop better speaking and listening skills. Students will be able to recognize the importance of effective speech communication in everyday life. Developing confidence in speaking and improving presentation skills will be expanded through speech writing and delivery of a variety of speeches. Students will learn to accept and give constructive criticism. A course in public speaking will better prepare students for required college oral communication courses.

Communication Arts #0320
1 sem. Grade 10, 11, 12 0.5 credit
Prerequisite: Speaking

This semester-long course is a continuation of the skills acquired in the Speaking class. In this elective course, students will explore interpersonal communication and public speaking. They will read, analyze, and interpret texts, then create multimedia presentations. The goals of this class are to understand and interpret author intent and develop self-confidence in public speaking.

AP English Literature and Composition A/B #0311, 0312

2 sem. Grade 11, 12 1 credit
Prerequisite: A grade of an A or B in prior English classes and Instructor recommendation.

This is a college-level course designed for skilled English students. They will study a wide range of literature from a variety of genres and periods. In addition to intensive reading, these students will write reaction and analysis papers. The curriculum in this course prepares students to take the AP exam in English Literature and Composition in the spring. The exam tests students' ability to read and interpret literature in both multiple choice and essay formats. Summer reading is an expectation.

Creative Writing #0316
 1 sem. Grade 10, 11, 12 0.5 credit
Prerequisite: Must have passed English 9 A/B.

Creative Writing gives students the opportunity to develop their literary talent. In this class, students read and discuss poetry, short stories, personal essays, and plays. More importantly, students will have opportunities to write in each of these four genres. The focus is on personal expression and experimentation with words, as the class is a supportive environment where people can share, and possibly publish their work. You do not need to be an excellent writer to take this course, just come ready to try new things. This is an elective credit.

ARCC College
Writing & Critical Reading #COL1002, COL1003
 2 sem. Grade 11, 12 1 credit
See your Dean for qualifications. Recommended for senior year. Must earn a C or better to earn college credit.

This community college course is the equivalent to Anoka Ramsey Community College Writing and Critical Reading: ENGL 1121. Provides extended practice in critical reading, writing, and thinking. Course content includes the writing process, essential composition skills, and critical reasoning in various rhetorical situations. The course requires effectively reasoned and supported essays including an argumentative research paper. Meets national transfer credit.

Family & Consumer Science

The courses in this department count toward the practical arts graduation requirement. They may also serve as electives. All FACS courses include reading articles, completing worksheets, and taking unit tests. Every unit includes a lab (for hands on experience) that reinforces content.

Foundations of Food #0505

1 sem. Grade 9, 10, 11, 12 0.5 credit

This course will cover basic kitchen safety, sanitation, equipment, food preparation, terms, tools, measurement, mise en place, and safe knife cutting techniques. You will also learn about family meal management and nutrition basics. Students will gain skills that can prepare for employment in food service jobs or transfer to your family's kitchen. Lab experiences are a required part of this course.

Global Foods #0503
 1 sem. Grade 9, 10, 11, 12 0.5 credit

This course will focus on celebrating diversity by exploring customs, religion, traditions, ingredients, utensils and methods of food preparation. Students will explore the seven continents and a wide variety of religions and their symbolic references to food. Students will take time to examine how food plays a critical role in sacred traditions.

Culinary Arts 101 #0504
 1 sem. Grade 9, 10, 11, 12 0.5 credit

This course covers the principles of nutrition and its relationship to the foodservice industry. Topics include personal nutrition fundamentals, weight management, exercise, nutritional adaptation/analysis of recipes/menus, healthy cooking techniques and marketing nutrition in a foodservice operation. Upon completion, students should be able to apply basic nutritional concepts to food preparation and selection

Independent Living
 1 sem. Grade 9, 10, 11, 12 0.5 credit

In Independent Living you will learn the skills necessary for successfully navigating life during and after high school. The primary units of study include character building, goal setting, consumerism, personal nutrition and health, buying a car, renting an apartment, and building strong relationships.

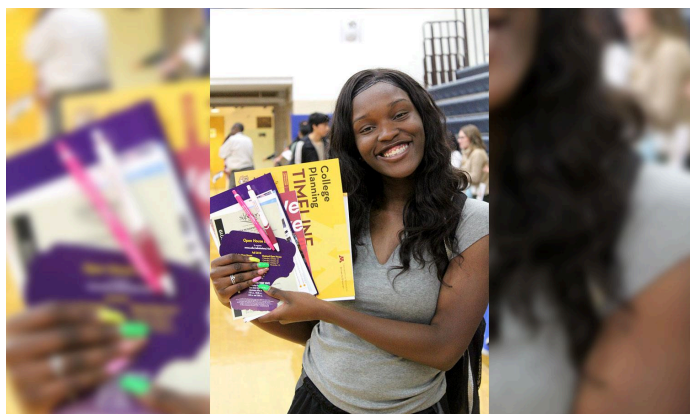
Introduction to Education #0508
 1 sem. Grade 9, 10, 11, 12 0.5 credit

The course explores pathways to the teaching profession with teachers as change makers in our communities. It includes an introduction to the historical and current philosophical, social, and curricular issues facing the U.S. education system. Course topics focus on increasing the achievement of all students through an examination of educational theories, reflections on personal experiences involving student learning, instructional strategies, and learning environments. Participation in 10 hours of field experience activities in K-12 schools is a course requirement. Students may earn credit for this course at Century College.

Creating Culturally Responsive Classroom #0504

1 sem. Grade 9, 10, 11, 12 0.5 credit

This course introduces prospective teachers/paraeducators to theory and approaches of multicultural education, in addition to the stereotypes and inequalities found within diverse classroom, family, and community settings. Topics include awareness of differing perspectives around race, gender, sexual orientation, class, nationality, ability, religion, and building equitable classrooms. Students are required to participate in 10 hours of field experience activities in a classroom setting. Students may earn credit for this course at Century College.



Mathematics

Students need a minimum of 3 credits of math to graduate from Columbia Heights High School. Math credits beyond 3 can count as electives. It is highly recommended that students take a math class every year.

All mathematics courses offered at Columbia Heights High School require the use of a graphing calculator. Currently, Texas Instruments TI-83 or TI-83+ calculators are used for classroom demonstrations and assignments. It is recommended that students purchase a graphing calculator, however, the math teachers have extras that students may borrow during class time.

Minimum Requirements	<ul style="list-style-type: none"> Intermediate Algebra A/B Geometry A/B Advanced Algebra A/B <i>or</i> Advanced Algebra Through Data Exploration A/B
Additional College Prep (recommended)	<ul style="list-style-type: none"> Pre-Calculus A/B AP Statistics A/B and/or AP Calculus A/B AP Calculus BC

Intermediate Algebra A/B #0710, 0711

2 sem. Grade 9 1 credit

This course solidifies information learned in middle school. Students expand on knowledge of linear equations & inequalities, quadratics and exponential equations. Int. Algebra is a core high school graduation requirement.

Geometry A/B #0712, 0713
2 sem. Grade 9, 10 1 credit
Prerequisite: Successful completion of Intermediate Algebra

This course is a rigorous study of the concepts of geometry. Areas of study will include, logic, congruence, and the study of 2 & 3 dimensional objects. A thorough use of linear algebra is used throughout the course. Geometry is a core high school graduation requirement.

Advanced Algebra A/B #0715, 0716
2 sem. Grade 9, 10, 11, 12 1 credit
Prerequisite: C or better in Geometry or successful completion of Adv. Alg Data.

This course provides a thorough treatment of algebraic concepts through the study of functions, polynomials, rational expressions, complex numbers, exponential & logarithmic equations, matrices, arithmetic & geometric sequences, data analysis & financial literacy. Adv. Alg. is a core high school graduation requirement.

Advanced Algebra through Data Exploration #0708, 0709
2 sem. Grade 11, 12 1 credit
Prerequisite: Successful completion of Intermediate Algebra and Geometry.

This course combines data exploration with the power of graphing calculators to enhance the content of advanced algebra. This approach emphasizes conceptual understanding rather than algebraic techniques. Students are encouraged to use graphing calculators daily to visualize algebraic concepts. Graphs and tables provide “visual spreadsheets” of valuable information, making algebraic topics accessible to all students. This course satisfies the Adv. Algebra requirement. Cannot be used as a prerequisite for Precalculus.

Pre-Calculus A/B #0724, 0725
2 sem. Grade 10, 11, 12 1 credit
Prerequisite: C or better in Advanced Algebra. Cannot use Adv. Algebra through Data to satisfy this requirement.

This is the final preparation for AP or ARCC Math. The main themes consist of the study of the function concepts, trigonometry, and theorems.

ARCC PreCalculus #COL1012, COL101

Performing Arts

Courses in this department count toward the fine arts graduation requirement.

Public concerts, music contests, tours, and other activities are planned so that the music groups are highly visible throughout the year. Concert attendance is mandatory for all performing groups. Membership in a particular performing group is determined by a combination of criteria: audition, the number of positions available, attendance, performance history, and music theory knowledge.

Final placement in music courses is made after registration has been completed. Continued membership is dependent upon the individual's maintenance of a performance level equivalent to or above the general level of the ensemble, music theory requirements and attendance.

Symphonic Band A/B #0803, 0804
2 sem. Grade 9, 10, 11, 12 1 credit

This non-audition band ensemble is for students continuing their instrumental music skills. Students will perform and concerts both in and outside of the school day. Prerequisite: Completion of 8th Grade Band, previous experience in Symphonic Band, or instructor consent.

Concert Band A/B #0800, 0801
2 sem. Grade 10, 11, 12 1 credit
Prerequisite: Audition and instructor consent.

Concert Band is by audition and selection only. Public performance in school concerts and regional contests are to be expected. Attendance at rehearsals or performances during and outside of the school day is required.

Beginning Band A/B #0815, 0816
2 sem. Grade 9, 10, 11, 12 1 credit

This course is designed for students who have never played a band instrument or played for a limited time. Students will learn to play a band instrument in this introductory class. No prerequisite.

Beginning Guitar
1 sem. Grade 9, 10, 11, 12 1 credit

This course is for students interested in learning more about guitar. Students will learn to read music and guitar tablature, tune guitars, and basic strum patterns and chords. Acoustic guitars will be provided.



Beginning Choir A/B #0813, 0814
2 sem. Grade 9, 10, 11, 12 1 credit

This course is for students interested in learning more about singing. Students will learn to read notes, develop their singing technique, and perform in a vocal ensemble. The course gives students the opportunity to learn and appreciate more advanced music through participation and performance. No prior experience required.

Intermediate Choir #0809, 0810
2 sem. Grade 9, 10, 11, 12 1 credit

Intermediate Choir is an ensemble designed to build on the skills taught in beginning choir or middle school choir. Throughout this course students will continue to develop their singing and music skills and will perform music of all styles and genres. Students will participate in large group performances throughout the year.

Concert Choir A/B #0807, 0808
2 sem. Grade 9, 10, 11, 12 1 credit
Prerequisite: Vocal placement and instructor consent.

Concert Choir is an advanced group of singers in grades 9-12 who demonstrate a strong foundation of singing and music skills. This choir seeks to provide a rich musical experience to those students motivated toward developing a high level of choral music achievement. The choir performs music of all styles and genres. Students will participate in small and large group performances throughout the year. A vocal placement is required for admittance to this ensemble..

CHHS Musical Theater #0854
1 sem. Grades 9, 10, 11, 12 0.5 credit

In this course students will learn performing arts skills spanning from artistic foundations to the artistic process. In this interactive class, students will analyze how the elements of dance, movement, acting, and storytelling are combined to create meaning. Students will study the concepts of health and safety issues related to dance and performing arts, along with production elements, and a variety of genres. Students will analyze how a work of musical theater influences and is influenced by the personal, social, cultural, and historical contexts.

World Music #0865
1 sem. Grades 9, 10, 11, 12 0.5 credit

No Prerequisites. This course will explore selected musical traditions from around the world. We will view how these musical traditions are shaped by and give shape to the cultural settings in which they are performed. Students will engage with these musical traditions through listening, observing, responding, and active participation. World Music will explore folk, art, and popular music from cultural soundscapes selected from Africa, India, Asia, the Middle East, Indonesia, Latin America, North America, and Europe.

Popular Music Genre Exploration
1 sem. Grade 9, 10, 11, 12 .5 credit

No Prerequisites. This course will explore popular music genres. We will view how these musical genres are shaped by and give shape to the world we will live in. Students will engage with this music through listening, observing, responding, and active participation. From Taylor Swift to Beyonce to Bad Bunny, students will explore a multitude of musical genres and artists from R&B, hip hop, latin, k-pop, rock, electronic music, country and many others. Students will also explore career aspects related to popular music including performance, songwriting and arranging, music production, and more.

Physical Education & Health

Courses in this department count toward the physical education / health graduation requirements. To fulfill the PE 1 credit requirement, students need to earn credit for Phy Ed 1 and one elective PE class. All students are required to take Health 10 for graduation.



Phy Ed 1 #0905
1 sem. Grade 9, 10, 11, 12 0.5 credit

Daily activity in PE 1 will focus on fitness-related activities and sports. This class must be passed prior to registering for an elective PE course. This core course is required for graduation.

Sports and Conditioning #0912
1 sem. Grade 10, 11, 12 0.5 credit
Prerequisite: Phy Ed 1

This is a class for students who want a bit of everything. This course will cover one to three different sports, while also covering conditioning activities focused on improving students' cardiovascular endurance, muscle strength/endurance, flexibility, and agility.

New Moves (Girls Only) #0915
1 sem. Grade 10, 11, 12 0.5 credit
Prerequisite: PE 1

New Moves is an all-girls class designed for students who do not enjoy the competitive nature of a traditional physical education class. This class focuses on many different topics that girls face on a daily basis ranging from weight management, motivation, self-esteem, and the importance of being physically active. This class includes a variety of physical activities including workouts in the pool and the fitness center.

Recreational Sports #0916
1 sem. Grade 10, 11, 12 0.5 credit
Prerequisite: PE 1

This class will involve active participation in various recreational sports and activities. Units will include a review of rules, strategy, and skills specific to the activity. This class is designed for those that enjoy participation at a recreational level. Possible units may include: tennis, volleyball, badminton, basketball, softball, soccer, Frisbee Golf, swimming and lawn games.

Strength Training #0920
1 sem. Grade 10, 11, 12 0.5 credit
Prerequisite: PE I

This course will emphasize improving muscular strength and/or muscular endurance. Students will review strength training concepts and muscle groups. Daily activity will involve following a set program that includes weight lifting, plyometrics, and other strength training activities.

Health #0909
1 sem. Grade 10, 11, 12 0.5 credit

Health 10 is a comprehensive health course designed to fit the needs of today's world. Major units include: wellness, nutrition, substance abuse, mental health, human development, and CPR. Guest speakers come to class in addition to videos, lectures, group work, and online research. This core course is required for high school graduation.

Science

Three credits of science are required to graduate from Columbia Heights High School. Credits beyond the 3 count as electives. Each class in the pathway requires completion of the previous courses.

Science Pathways (3 years required, 4 years recommended)			
Grade	Minimum (3 years)	Recommended (4 years)	Advanced (4 years)
9 th	Environmental Science	Environmental Science	Physics w/Astronomy
10 th	Physics w/Astronomy	Physics w/Astronomy	AP Environmental Science
11 th	Biology	Biology	AP Biology or ARCC Biology
12 th	Additional Science credits are optional	Additional Science credits are recommended	AP Chemistry; AP Physics; ARCC; Anatomy & Physiology

Environmental Science A/B #1009, 1010
2 sem. Grade 9 1 credit

This required course is usually taken in 9th grade. It is designed as an introduction to how science shapes the world around us. Environmental science is an applied science that can describe human interaction with the environment. The class will explore interactions that harm or benefit mankind. By the end of the course, students will have experience critically analyzing their role in our global society. The class includes hands-on investigations, labs, and interactive computer activities.

Physics with Astronomy A/B #1026, 1027
2 sem. Grade 10 1 credit
Prerequisite: Environmental Science or 8th Grade Honors Science

This required course is usually taken in 10th grade. It is a hands-on class that uses lab experience to investigate the world around us. This course will investigate the concepts of electricity, magnetism, heat, sound, light, wave function, mechanics of motion, forces, momentum, and energy and astronomy. Basic algebra skills and the ability to solve problems independently will be reinforced in this course. Students will study the topics of physics using a conceptual approach through experimentation and investigation; math skills will also be involved.

Biology A/B #1007, 1008
2 sem. Grade 10, 11, 12 1 credit
Prerequisite: Environmental Science and Physics with Astronomy

This required course is usually taken in 11th grade. Topics covered include the nature of science, cells, DNA, genetics, evolution, biodiversity, human systems, and ecology. The class is lab and activity-oriented. Students will practice designing experiments, analyzing data, and drawing conclusions.



Chemistry A/B #1016, 1017
 2 sem. Grade 11, 12 1 credit
Prerequisite: Environmental Science and Intermediate Algebra

Chemistry is a course designed for students interested in science or planning for college. The course investigates concepts in chemistry and will help students make better decisions about the environment, future energy concerns, or the materials we consume as a society. Chemistry will investigate topics such as matter, energy, atomic theory, stoichiometry, periodicity, electron configurations, chemical bonding (organic & inorganic), solutions, gasses, acid-base theory, salts and oxidation. Students will learn to use mathematical analysis to analyze experimental data.

Astronomy
 1 sem. Grade 10, 11, 12 0.5 credit
Prerequisite: Environmental Science

This astronomy course examines the solar system, stars, galaxies and interstellar bodies. They introduce and use astronomical instruments and typically explore theories regarding the origin and evolution of the universe, space and time.

Anatomy & Physiology A/B #1013, 1014
 2 sem. Grade 11, 12 1 credit
Prerequisite: Environmental Science and Physics with Astronomy

In this upper-level course, students will study the anatomy and physiology of the organs and organ systems in the human body. Students will learn the location and function of the parts of each body system (nervous, circulatory, respiratory, digestive, reproductive, etc.). Diseases and dysfunctions of the human body will also be studied. This is an interactive class with many labs and hands-on activities including dissections of a cow eye, sheep brain, sheep heart, and fetal pig.

ARCC Unifying Concepts in Biology #COL1006, COL1007
 2 sem. Grade 11, 12 1 credit
See your Dean for qualifications

This community college course is the equivalent of Anoka Ramsey Community College Unifying Concepts in Biology: BIOL 1100. Introductory course designed to teach the process of science as it applies to biology today. Topics in biology that will be covered include heredity, evolution and ecosystems. Three lecture hours per week and 10 three-hour labs during the semester. This course is not intended for science or allied health majors.

ARCC Environmental Science + Lab #COL1008 & COL1009
 2 sem. Grade 11, 12 1 credit
See your Dean for qualifications

This community college course is the equivalent of Anoka Ramsey Community College Environmental Science/Lab: BIOL 1103 and BIOL 1133. Introduction to the basic characteristics and dynamics of the ecosystems. The effects of the increasing and changing human demands on our environment are explored. Includes an environmentally based lab-like experience.

AP Environmental Science
 2 sem. Grade 10, 11, 12 1 credit
Prerequisite: 8th Grade Honors Science and Physics with Astronomy; or instructor approval

This Advanced Placement course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography.

AP Chemistry A/B #1019, 1020
 2 sem. Grade 11, 12 1 credit
Prerequisite: AP Application to demonstrate:
 1. Successful completion of Chemistry with a B or higher and
 2. Successful completion of Advanced Algebra or
 3. Instructor approval
Since the class uses a college-level text, it is highly recommended that students have reading skills well above grade level prior to taking the course.

This Advanced Placement course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. The course curriculum is designed to extend understanding of chemistry by providing an in-depth study of fundamental concepts. Emphasis will be placed upon laboratory experiences and chemical problem solving. The course should contribute to the development of the students' abilities to think clearly and to express their ideas orally and in writing, with clarity and logic. AP chemistry will provide a solid foundation in chemical concepts to prepare students for future courses in chemistry and is recommended for students who plan to pursue chemistry-related careers.



Social Studies

Social Studies credits beyond the requirements can count as electives.

Social Studies Graduation Requirements	
Grade	Course
9 th	Civics
9 th	Human Geography
10 th	World History or AP World History
11 th	American History or AP US History
12 th	Economics

Civics #1120
1 sem. Grade 9 0.5 credit

This required one semester course is focused on the study of citizenship and government. This course provides students with a basic understanding of civic life, politics, and government, and a short history of the government's foundation and development in this country.

Human Geography #1120
1 sem. Grade 9 0.5 credit

This one semester class is required for all 9th graders. Students will use a variety of sources such as maps, texts, and websites to study the relationship between humans and the spatial world. In this class we will study the 5 themes of geography,

population, political geography, economic geography, urban and environmental geography, as well as cultural geography.

World History A/B #1103, 1104
2 sem. Grade 10 1 credit

This required world history course follows the journey of human civilization from its earliest origins to the present day. Students will develop their critical thinking and historical analysis skills while studying the events that have shaped our world today. Topics include: early civilizations, ancient and classical empires, trade and exchange, colonization, revolutions, global conflicts, and current events.

AP World History A/B #1115, 1116
2 sem. Grade 10 1 credit

Prerequisite: AP application to demonstrate:

1. B or better in previous social studies courses
2. GPA of 2.0 or better

Since the class uses a college-level text, it is highly recommended that students have reading skills well above grade level prior to taking the course.

Advanced Placement World History is a fast-paced introduction to the history of the modern world. The class takes a chronological approach to the broad historical themes of religion, trade, empire, colonization, revolution, and conflict while challenging students to develop historical analysis and critical thinking skills. AP World History also has a deep emphasis on improving students' argumentative writing skills, as students prepare to take the AP Test in May. Students should be prepared for a significant amount of homework and high expectations for class involvement. Students who take this Course must be self-directed learners with strong reading and writing abilities. Students are expected to take the AP exam in May. Consistent attendance is critical for success in AP courses.

American History A/B #1105, 1106
2 sem. Grade 11 1 credit

This required course covers political, social, economic, diplomatic and domestic issues. Specific themes will be covered as independent units chronologically. These topics are developed to show how they relate and interact with the overall evolution of the United States of America. Units covered are indigenous nations, colonization, the founding of the US, westward expansion, the Civil War, industrialization, immigration, imperialism, civil rights, and the role of the US in the world.

AP US History A/B #1118, 1119
2 sem. Grade 11 1 credit

Prerequisite: AP application to demonstrate:

1. B or better in previous social studies courses
2. GPA of 2.0 or better

Since the class uses a college-level text, it is highly recommended that students have reading skills well above level.

The Advanced Placement United States History course is designed to provide motivated students with a comprehensive and rigorous understanding of American history. The class takes a chronological approach to the broad historical themes. Through the examination of primary and secondary sources, students will explore political, social, economic, and cultural developments in American history. Emphasis is placed on critical thinking, analysis, and interpretation of historical events and their impact on society. Students will also develop skills in historical writing, document analysis, and historiography. This course prepares students for the AP US History exam, which assesses their knowledge of key historical concepts and their ability to analyze historical evidence. Students who take this course must be self-directed learners with strong reading and writing abilities. Students are expected to take the AP exam in May. Consistent attendance is critical for success in AP courses.

Economics #1111
1 sem. Grade 12 0.5 credit

This is a required one-semester class for seniors. Economics is the study of how society allocates limited resources to satisfy unlimited wants and needs. Microeconomics focuses on individual economic choices including topics such as opportunity costs and supply and demand. Macroeconomics examines the economy as a whole; including economic systems, money, banking, inflation and unemployment. In addition, this class will cover personal finance topics such as investments and taxes.

***AP US Government and Politics** #1132
1 sem. (Fall) Grade 12 0.5 credit

Prerequisite: AP application to demonstrate

1. B or better in previous social studies courses
2. GPA of 2.0 or better

Since the classes use a college-level text, it is highly recommended that students have reading skills well above grade level.

AP United States Government and Politics is a one-semester, college-level political science course designed to develop skills and knowledge necessary to be successful in a four-year college program. The course content is centered on the U.S. Constitution, Bill of Rights, elections and politics, and the institutions of government. Students will learn the complex

issues of government in a modern democracy. Using primary source documents and a college-level textbook, students will improve their reading and writing skills while preparing for the AP Exam in May.

***AP Comparative Government & Politics** #1133
1 sem. (Spring) Grade 12 0.5 credit

Prerequisite: AP application to demonstrate

1. B or better in previous social studies courses
2. GPA of 2.0 or better

Since the classes use a college-level text, it is highly recommended that students have reading skills well above grade level.

AP Comparative Government and Politics is a one-semester, college-level political science course designed to develop the skills and knowledge necessary to be successful in a four-year college program. This course is usually taken during the spring semester in conjunction with AP U.S. Government and Politics. The course compares the governmental structures of six diverse countries: Mexico, Iran, Nigeria, China, Russia and Great Britain. Using contemporary new sources and a college-level textbook, students will improve their reading and writing skills while preparing for the AP Exam in May.

American Indian Studies #1126, 1127
1 sem. Grade 10, 11, 12 0.5 credit

This course is a survey of the living, breathing history of Native nations in Minnesota. Over the course of the semester, students will study topics surrounding land, identity, history, change, community, and culture. Specifically, students will focus on Dakota and Ojibwe history and the continuing experiences of Native people in Minnesota today. The course is both academic and hands-on with outdoor excursions, connections in the Blooming Heights garden, book and film studies, and field trips. Students should be prepared to engage with complex topics and explore the intricacies of the past and present of Native people today.

Sociology #1112
1 sem. Grade 11, 12 0.5 credit

Sociology is the scientific study of human interactions. In this class, students learn about the society in which they live and how their social interactions define them as people. Students cover a wide variety of topics including values, popular culture, economic and social status, adolescence, crime, diversity and demographics. The course teaches students to analyze the world around them and think critically about themselves and their society.

Psychology #1113
1 sem. Grade 11, 12 0.5 credit

Psychology is a unique social studies elective course. This class provides students with an overview of multiple aspects of psychology. Topics covered in this class include: neuroscience, sleep and dreams, motivation, emotion, learning, neurodivergence, personality and identity. Students who take this class should be prepared for in depth and frequent discussions on a range of issues related to psychology and you.

World Language

World language courses count as elective credits for high school graduation. Students planning to go to college should take at least 2 years of a world language in high school.

Spanish 1 A/B #0421, 0422
2 sem. Grade 9, 10, 11, 12 1 credit

Students in this course will study the basic fundamentals of Spanish: reading, writing, speaking, pronunciation, listening and cultural awareness. Basic vocabulary and sentence structure in the present and immediate future tenses are introduced throughout the two semesters. Spanish is used in the classroom for basic communication and listening practice on compact discs of native speakers. As the course progresses, students gain confidence in their skills and understand more and more. Culture is studied through the use of songs, current events and videos. Skits, dialogues and games are used to supplement the textbook and foster greater language ability.

Spanish 2 A/B #0424, 0425
2 sem. Grade 9, 10, 11, 12 1 credit
Prerequisite: Successful completion of Spanish 1 or placement test.

Spanish 2 continues the basics of Spanish grammar and stresses the skills of writing, reading, listening, speaking and utilizing conversational audio and video clips to reinforce skills. Additional cultural themes are studied through songs, films and discussion of world events. In addition, this course includes a large cultural project including an oral presentation in Spanish.

Spanish 3 A/B #0427, 0428
2 sem. Grade 10, 11, 12 1 credit
Prerequisite: Successful completion of Spanish 2 or placement test.

Students in this course communicate in Spanish as much as possible. Students will be introduced to the progressive, present perfect and imperative tenses/moods. Students work with a variety of listening, speaking, reading and writing activities

such as songs, small group conversation, oral presentations, readings and compositions. Culture is explored through films, music, and projects.

AP Spanish A/B #0431, 0432
2 sem. Grade 11, 12 1 credit
Prerequisite: AP application demonstrating the successful completion of Spanish 3 or Heritage Spanish 2 with a grade of B or higher. Native or non-native speakers of Spanish may take this course.

This full year course is meant to be comparable to the fifth or sixth semester college or university courses that focus on speaking and writing in the target language at the advanced level. The course will build Spanish proficiency across interpersonal, interpretive, and presentational modes.

Students will be expected to take the AP Spanish Language exam in May. Consistent attendance is critical for success in AP courses.

Heritage Spanish 1 A/B #0429, 0430
2 sem. Grade 9, 10, 11, 12 1 credit
Prerequisite: Teacher approval or Spanish placement test.

This course is designed for students whose first language is Spanish or who already speak the language fluently but want to build their Spanish writing and reading skills. Areas of study will include vocabulary, literature, and geography. Each unit includes a connection to English grammar and vocabulary, citing certain pitfalls or problematic areas in both languages. Students will write essays, do a research project and communicate exclusively in Spanish.

Heritage Spanish 2 A/B #0433, 0434
2 sem. Grade 9, 10, 11, 12 1 credit
Prerequisite: Successful completion of Heritage Spanish 1, teacher approval, or Spanish placement test.

In this course, each unit will focus on a specific aspect of Hispanic history, literature, grammar and vocabulary, as well as certain language aspects that relate to English. Students will continue to strengthen their reading and writing skills by writing interpretive or persuasive essays and making oral presentations. Students will be expected to use Spanish exclusively in class and have a strong desire to improve all of their language skills in order to communicate effectively.

