

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

It is wise for students to consult with parents, teachers, advisors, and their Dean of Students to plan a program of study that will meet graduation requirements and prepare for college and careers.

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 get 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 #
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# of semesters	Grade	# of credits
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Words you might need to know from this course guide:

- Concurrent – at the same time
- Prerequisite – 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.

Department	CHHS Graduation	College Prep
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	NA
Total	27	NA

Students who are short credits at the end of grades nine, ten, and eleven 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.

## Required Testing at CHHS

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

## 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 GPA a minimum to be eligible. For more information, go to [www.eligibilitycenter.org](http://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 Language and Composition  
AP English Literature  
AP Comparative Government and Politics\*  
AP US Government and Politics\*  
AP Macro Economics\*  
AP Micro Economics\*  
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
- Short Stories
- 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:

- Design and Digital Media
- Computer Hardware / Software & Game Design
- Animal Science
- Dental Occupations
- Emergency Medical Technician
- Medical Careers
- Education and Human Service Careers
- Cosmetology
- Law Enforcement / Criminal Justice
- Maintenance and Environmental Services
- Construction Occupations
- Auto Dismantling
- Automotive Technology
- Diesel Trucks and Engine Technology
- Career Sampler
- Honors Mentor Connection
- Entertainment, E-Marketing, and Event Planning

Students are required to provide their own transportation to and from Northeast Metro each day. Host high schools include: Roseville, Woodbury, White Bear Lake (south), North St. Paul, Mounds View, and Stillwater.

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.

<b>AVID (Advancement Via Individual Determination)</b>	Gr 9 #0250, 0251 Gr 10 #0252, 0253 Gr 11 #0254, 0255 Gr 12 #0256, 0257
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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

The work seminar course prepares students to be effective employees in the workplace. In addition, this course helps students identify potential careers/jobs, and may increase their chances of achieving their goals. Another aspect of this course is to make students aware of the following workplace standards: labor laws, effectively completing job applications, writing resumes/cover letters/thank you letters, interviewing skills, job performance and employee evaluations, budgeting/paychecks/taxes, and workplace safety.

**Work Experience** #1376  
2 sem. Grade 11, 12 1-2 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 be considered for this course.*

The work experience course is for students who are currently employed or volunteer and work at least ten hours per week. This course provides an opportunity for students to learn and apply work behaviors and skills in an authentic community setting. Approval for this course requires a business partnership. Students will be responsible to submit copies of pay stubs to the teacher to prove working hours.

**Spring College Prep** #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, institution research, and a final plan put in place for college applications in the fall.

**Fall College Workshop** #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 the time and support to research institutions to apply to, 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 Seminar: English** #0272, 0273  
2 sem. Grade 10 1 credit

This course is designed to support students who are interested in Concurrent Enrollment Programming. Emphasis will be on preparing students for college-level reading and writing across content areas. In addition, students will learn to use strategies and life skills that will help them be successful in college and future studies.

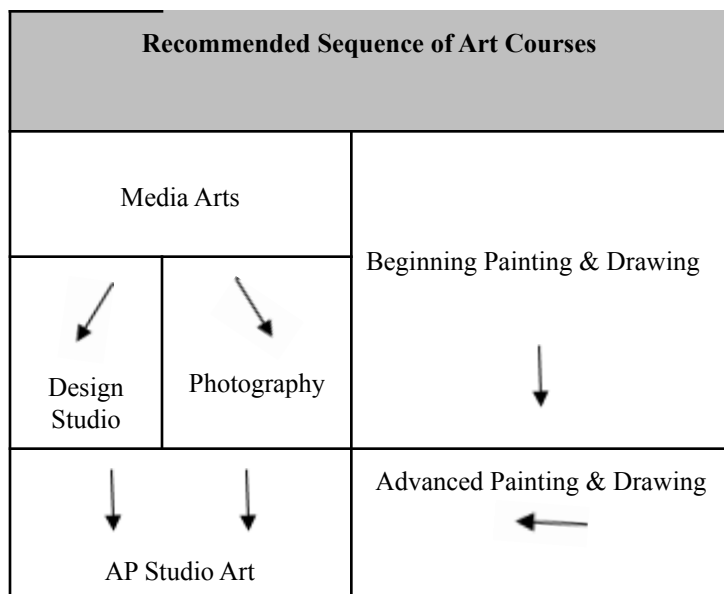
**College Seminar: Math** #0270, 0271  
2 sem. Grade 9 1 credit  
*The course is taken concurrently with Intermediate Algebra.*

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 the world and language of design. Students will evaluate and demonstrate how the principles and elements of design such as shape, repetition, and balance are used in the creation of both two-dimensional and three-dimensional artworks. Students will learn about the fields of type design, basic color theory, logo design, product design and fashion design through the creation of their own projects. Students will learn how to reflect and write about their own artistic intentions through various forms of critique.

**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. Students will present and critique their projects in group and solo performances and written reflection. Art history will be used as an introduction to projects from the earliest times to the most contemporary styles and concepts such as recycling and puppetry. 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, tile, 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.

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

This beginner's course helps you build foundation skills in observation and imagination that are used in the creation of successful artistic compositions. A variety of materials such as acrylic paint, colored pencil, pen and ink will be introduced. Collage and drawing techniques will be used in the development of compositions using realistic, comic, abstract, and expressive styles. Art history will be introduced as a way to approach the subject of each project. Along with still life and comic studies, human anatomy will also be studied. Students will analyze and reflect on their work with each unit through written artist statements.

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

This class is for students who want to further develop their observation and expressive skills in drawing, and their understanding of color and composition in painting. In this class, students will begin to work independently in the development of compositions, ideas, and personal style. Students will be given assignments and prompts that are quite focused, yet open, to encourage a heightened level of personal creativity. Group critiques and personal reflective assessments are an integral part of the creative process. The creation of a portfolio will be an option for students in this class.

**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  
*Prerequisite: Prior Media Arts experience is preferred*

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.

**Design Studio** #0125  
1 sem. Grades 9, 10, 11, 12 0.5 credit  
*Prerequisite: Media Arts*

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.

**AP Studio Arts** #0128, 0129  
2 sem. Grade 11, 12 1 credit  
*Prerequisite: AP application to show that all of the following requirements have been completed:*

1. Advanced Drawing & Painting
2. Media Arts
3. Photography (recommended)
4. 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.

**AP Art History** #0130, 0131  
2 sem. Grade 10, 11, 12 1 credit  
*Prerequisite: AP application*

AP Art History introduces students to the history of art created in the European and non-European traditions. Students demonstrate their knowledge in a variety of formats: reading/discussion, research, comparative analysis of artwork and reflective writing about observations and interpretations. This course is built for students who are independent and self-motivated. Students must also be proficient in essay writing, study skills, art concepts, and world history.

**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. This introductory course explores the foundations of business and consumer decision making in a dynamic economy. Units of study will include organizing a business, understanding economic principles, recognizing the informed consumer and exploring business careers. This course will incorporate technology for research as well as applying authentic and relevant business skills in real world applications.

**Computer Applications** #0235  
1 sem. Grades 9, 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 multi-media 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.

**Business & Personal Law** #0208  
1 sem. Grade 10, 11, 12 0.5 credit

Do you know your rights? In this course, you will study the American legal system as it relates to you and the business world. Topics will include criminal and civil law, ethics and values, the state and federal court systems, youth and the legal systems (including child labor laws and traffic offenses). This class will culminate in a mock trial.

**Personal Money Management** #0212  
1 sem. Grades 9, 10, 11, 12 0.5 credit

This course will help students find out where money goes, how to develop and attain goals, manage a personal and family budget, maintain a checking account, and save money. Other topics will include learning one’s legal rights and responsibilities as a consumer, getting a job, buying a house, buying or leasing a car, building a budget, credit cards, investments, job benefits and saving. This is a very practical, hands-on course to prepare students for the real world.

**Intro to Agriculture, Natural Resources, and Careers** #1114  
1 sem. Grades 11, 12 0.5 credit

In this elective course, students will explore the importance of food systems, agri-business, and natural resource sciences in their everyday lives. Hands-on, experiential and seasonal activities will be used to introduce students to topics in plant and animal sciences, food science, natural resources and forestry, food justice, and current issues in agriculture. Particular emphasis will be placed on introducing students to career and postsecondary options in various food, agriculture and natural resource fields.

**Web Page Design** #0604  
1 sem. Grade 9, 10, 11, 12 0.5 credit

Do you ever wonder how the websites look the way they do? In this course, students will use the internet to evaluate websites and learn how to develop (program) a web site. Upon learning HTML scripting techniques for text, graphics, tables, frames and forms, students will plan and design a web site for personal or business use.

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

Students will explore fundamental marketing concepts as they apply to the entertainment industry. Classroom activities range from promotion and pricing to market and product placement. Students will design, plan, promote and execute a series of marketing activities for a variety of art and entertainment events.





## 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.

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

### 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. Student 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** #0392D, 0393D  
 2 sem. Grades 9, 10, 11, 12 1 credit  
*Prerequisite: EL level 1, 2, 3*

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. When students pass this course, they take geometry next. 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.

**Project Lead The Way: Engineering** #0606  
1 sem. Grade 9, 10, 11, 12 .5 credit

“From launching space explorations to delivering safe, clean water to communities, engineers find solutions to pressing problems and turn their ideas into reality. PLTW Engineering empowers students to step into the role of an engineer, adopt a problem-solving mindset, and make the leap from dreamers to doers. The program’s courses engage students in compelling, real-world challenges that help them become better collaborators and thinkers. Students take from the courses in-demand knowledge and skills they will use in high school



and for the rest of their lives, on any career path they take.

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

In this class, students learn about and produce a daily broadcast news show: The Hylander News Network. Students will practice journalism techniques including reporting, interviewing, scripting, and on-air talent. They will be involved with photography, shooting high quality video, and using editing software to produce the broadcast show.

**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, blue print reading, household electricity, plumbing, etc. Students will have many opportunities to practice skills learned in this course.

**AutoCAD 1 – Mechanical Drafting & Engineering** #0601  
1 sem. Grade 9, 10, 11, 12 0.5 credit

With the 21st century upon us, students need to take advantage of technology in order to be competitive in today’s society. Mechanical Drafting and Engineering is a one semester course that offers students the opportunity to learn basic computer drafting skills. Students will learn how to draw objects from many different perspectives including three-dimensional solid modeling using Solid Works software. Students will use engineering tools including a CNC laser and 3D printer to produce prototypes and products designed by students on the engineering design software. The final project will be to design a cell phone or video game controller using all of the drawing methods learned in the class.

**AutoCAD 2- Architectural Drafting & Engineering** #0602  
1 sem. Grade 9, 10, 11, 12 0.5 credit  
*Prerequisite: AutoCAD 1*

Architectural AutoCAD is designed to provide the student with an understanding of the high-tech field of CAD 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 use skills from AutoCAD 1 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.

#### **Power Mechanics:**

**Engineering & Transportation A/B** #0670, 0671  
2 sem. Grade 9, 10, 11, 12 1 credit

This is a course designed to introduce a variety of engineering principles and power systems. Some of the topics covered will be the problem-solving method, simple machines, pneumatics, hydraulics, engine theory, and practical applications.

#### **Power Mechanics 2:**

**Engineering & Transportation A/B** #0673, 0674  
2 sem. Grade 9, 10, 11, 12 1 credit  
*Prerequisite: Power Mechanics 1*

This course will give students an introduction to the manufacturing and automotive industries. Students will be examining systems and operations in the modern automobile. Manufacturing processes such as welding and blueprint reading will also be covered. Students will have opportunities to perform preventative maintenance and repair. Students will apply their skills to the manufacturing of a go-cart. Students in grade 11 or 12 may earn credit for this course at Century College.

**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, racks for hunting and fishing equipment, clocks, or small pieces of furniture. 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 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 are considering woodworking as a vocation.

**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 structures built by the Home Improvement class.

**Plastics** #0650  
1 sem. Grade 9, 10, 11, 12 0.5 credit

Each student in this class becomes familiar with plastics while actually forming, molding, and casting many individual projects, ranging in size from a few ounces to several pounds. The class will be both a broad overview of the industry and an examination of how plastics are used in our daily lives.

#### **Engineering & Technology Labs**

1 sem. Grade 10, 11, 12 0.5 credit  
*Prerequisite: Entry level courses in the desired area*

Engineering & Technology Labs are semester-length courses that are project-oriented with the student's interest areas being of primary consideration. The lab option 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.

ETE Lab Choices	
	<ul style="list-style-type: none"> <li>· AutoCAD Drafting Lab #0605</li> <li>· Power Mechanics Lab #0672</li> <li>· Plastics Lab #0651</li> <li>· Woodworking Lab #0683</li> <li>· Multimedia Production Lab #0644</li> </ul>

### **English Language Arts**

Select from 1 Required English Course Each Year	
9 <sup>th</sup> Grade	· Pre-English 9 A/B ·
10 <sup>th</sup> Grade	· Pre-English 10 A/B

11 <sup>th</sup> Grade	<ul style="list-style-type: none"> <li>English 11 A/B</li> <li>AP English or</li> <li>ARCC College Writing/Critical Reading</li> </ul>
12 <sup>th</sup> Grade	<ul style="list-style-type: none"> <li>English 12 A/B</li> <li>Journalism 2 A/B</li> <li>AP English or</li> <li>ARCC College Writing/Critical Reading</li> </ul>

**\*Pre-AP English 9 A/B**

#0300, 0301

2 sem. Grade 9 1 credit

This is a core English course focuses on essential thinking, reading, speaking and writing skills. Some of the units include: speech writing and performing, short stories, key elements of fiction and vocabulary. Students will write in several genres and will practice writing to a prompt to prepare for the MCA writing test. Choice reading outside of class is expected.

**\*Pre-AP English 10 A/B**

#0305,

0306

2 sem. Grade 10 1 credit

This is a core English course for grade 10. Students will write three required papers: a persuasive essay, a research paper and either a narrative essay or a film-review. 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**

2 sem.

Grade 12

#0313, 0319

1 credit

This is a required, core course for all seniors not taking an AP English course or Journalism 2. Othello and The Kite Runner will be the major works studied. Additionally, students will complete a career unit including a resume, a job interview, and an I-Search research paper on a career of their choice. Choice reading outside class is also part of this course.

**Journalism 1**

1 sem.

Grade 9, 10, 11, 12

#0323

0.5 credit

Come and discover the power of the pen! Learn how to “legally” express your opinion. This course focuses on journalism writing in news, feature, sports, entertainment, and opinion. Students will increase their competence in and enjoyment of writing for an audience while they explore libel and freedom of the press. Students in the class work to improve their grammar and polish their writing skills. This is an elective credit.

**\*Journalism 2**

2 sem.

Grade 10, 11, 12

#0324, 0326

2 credits

*Prerequisite: Journalism 1 or administration approval*

Journalism 2 students will explore techniques for advanced writing, advertising, and photography. They will focus on time management and meeting deadlines. This class will be the staff for the school newspaper, The Heights Herald, which is published monthly. Students will work collaboratively on different tasks like editing, photography, interviewing, writing and advertising. Juniors taking Journalism 2 still take English 11 or an AP English class.

**\*AP English Language & Composition A/B**

2 sem.

Grade 11, 12

#0329, 0330

1 credit

*Prerequisite: AP application to demonstrate:*

1. A grade of A or B prior English classes and
2. Above grade level reading skills
3. Instructor approval

This college-level course is designed for students who already possess excellent reading and writing skills and who are ready for a significant academic challenge. Course content includes reading non-fiction essays that show how writers uses rhetorical features in language (diction, syntax, tone, imagery etc.) to fit specific purposes. There will be many writing assignments that explore different modes of rhetorical development such as narrative, analytical, compare/contrast, definition, and process essays. The long- term goal of this course is to prepare students to pass the AP exam in May. Summer reading is expected as well as after school study sessions.

**Film Studies** #0318  
1 sem. Grade 9, 10, 11, 12 0.5 credit

The focus of this course will be the evolution and development of cinema through the ages—how movies affected and were affected by society. The class will study the theories that create messages using visual images. This challenging class will analyze films, scripts, articles and reviews. Students will create, identify and use film concepts to evaluate the quality, influence and purpose of a film. This is an elective credit.

**ARCC Short Stories** #COL1010  
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 Short Stories: ENGL 2204 course. Students will read selected short stories to explore the scope and variety of this form of literature. Point of view, characterization, language, and other elements will be emphasized; students will analyze, interpret, and evaluate the stories. The course will also deal with issues of diversity and may be organized around a particular topic.



**\*AP English Literature A/B** #0311, 0312  
2 sem. Grade 11, 12 1 credit

*Prerequisite: AP application to demonstrate*

1. A grade of A or B prior English classes and
2. Above grade level reading skills or
3. Instructor approval

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. Students taking this course during their senior year will be exempt from English 12. Summer reading is an expectation.

**Creative Writing** #0316  
1 sem. Grade 9, 10, 11, 12 0.5 credit

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*

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.





## 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.

### Nutrition and Wellness

#0506

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

The course of study includes, but is not limited to: Advanced topics and issues in nutrition and wellness, food and nutrition for individuals and families with special needs and disadvantaging conditions, and topics related to management of daily living needs of individuals and families.

### Foundations of Food

#0505

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

Foundations of food is an introductory course in cooking. The course emphasizes nutritional, economical, and efficient food preparation for the 21st century. Students will be involved in the preparation of quick breads, yeast breads, cakes, pies & pastries, eggs, cheese, milk, jams, jellies, and food preservation as well as gifts from the kitchen. Students will have hands-on experiences promising professional quality results.

### 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



## 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.

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

**Intermediate Algebra A/B** #0710, 0711  
2 sem. Grade 9 1 credit

This course provides a thorough treatment of algebraic concepts through the study of functions, polynomials, rational expressions, complex numbers, exponential and logarithmic equations, matrices, arithmetic and geometric sequences and series, data analysis, and financial literacy. Emphasis is placed on the mechanics of algebra with real-life applications and modeling. A transformational approach to graphing is used with families of related graphs. Numerical, graphical, and algebraic solutions should be considered for all problems as appropriate. Graphing utilities, especially graphing calculators, are integral to the course.

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

This course is a rigorous study of the concepts of geometry. Areas of study will include logic, congruence, and proofs. Geometry is a core high school graduation requirement.

**\*Advanced Algebra A/B** #0715, 0716  
2 sem. Grade 9, 10, 11, 12 1 credit  
*Prerequisite: Successful completion of Geometry.*

This course extends the study of algebra and begins to integrate the concepts learned in geometry with those of algebra as well. A brief introduction to trigonometry is also included. Advanced Algebra is a core high school graduation requirement.

**\*Advanced Algebra through data Exploration**  
#0708, 0709  
2 sem. Grade 11 1 credit

*Prerequisite: Successful completion of Intermediate Algebra and Geometry.*

This course combines data exploration, hands-on activities, and 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.

**\*Pre-Calculus A/B** #0724, 0725  
2 sem. Grade 10, 11, 12 1 credit  
*Prerequisite: C or better in Advanced Algebra with teacher recommendation.*

This is the final preparation for the study of calculus, as well as the study of statistics. The main themes consist of the study of the function concept and trigonometry. Students should NOT skip a year between Advanced Algebra and Pre-Calculus or between Pre-Calculus and AP Calculus.

**ARCC College Algebra I** #COL1012, COL1013  
2 sem. Grade 11, 12 1 credit  
*See your Dean for qualifications*

This community college course is the equivalent of Anoka Ramsey Community College, College Algebra I: Math 1200 course. The completion of two years of high school algebra and one year of high school geometry. Topics include functions and function inverses; exponential and logarithmic functions; polynomial and simple rational functions; introduction to linear programming; systems of equations and inequalities; sequences and series; probability; and modeling.

**\*AP Statistics A/B** #0740, 0741  
2 sem. Grade 11, 12 1 credit  
*Prerequisite: AP application to show that a student has earned a B or better in Advanced Algebra or has instructor approval. It is highly recommended to take Pre-Calculus before or at the same time as AP Statistics.*

Advanced placement statistics is an excellent option for any student who intends to major in education, psychology, sociology, health science, environmental science or business. The purpose of AP Statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are expected to take the AP exam at the end of the course. Consistent attendance is critical for success in AP courses. This course can be taken concurrently with Pre-Calculus or with AP Calculus. Students

Calculus BC Exam, given in the first week of May. The course is delivered via the Advanced Placement four-pronged approach to studying calculus – graphical, numerical, analytical, and verbal.

## #0700

*Prerequisite: Enrollment is by placement only.*

This course is designed to study basic math and pre-algebraic concepts in a format that will allow for the skill development needed in Intermediate Algebra. It will include an introduction to the use of graphing calculators (TI-83 or TI- 83+) and regular use of the ST Math program on the computer. Students are placed in the course. They do not sign up for it. This course counts as an elective credit.

#0727, 0728

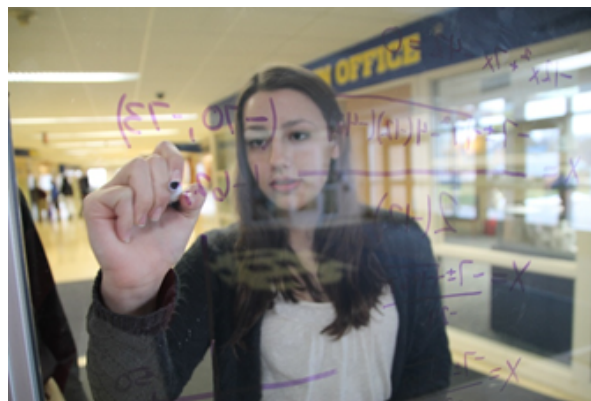
*Prerequisite: AP application to show that the student has earned a B or better in Pre-Calculus or has instructor approval.*

AP Calculus AB is a rigorous college-level course. The course comprehensively covers single-variable differential calculus and provides an introduction to integral calculus. Course topics include (but are not limited to) the theory of limits, basic differentiation techniques on known functions, the Power, Product, Quotient, & Chain Rules, analyzing the relationship between a function, its derivative, and its second derivative, applications of derivatives, rectangular approximations of area under a curve, the Fundamental Theorem of Calculus, basic integration techniques including u-substitution, and calculations of areas between curves and generated volumes using integrals. Students will prepare for the Advanced Placement Calculus AB Exam, given in the first week of May. The course is delivered via the Advanced Placement four-pronged approach to studying calculus – graphical, numerical, analytical, and verbal.

#0729, 0730

*Prerequisite: AP application to show that the student has earned a B or better in AP Calculus or has instructor approval.*

AP Calculus BC is a rigorous college-level course. The course is an extension of AP Calculus AB. 60% of the material in this course is the same as in AP Calculus AB, however it is covered from a completely different perspective (and at times much more in-depth) since students already have a working knowledge of differential and introductory integral calculus. The 40% of the course that is new material includes (but is not limited to) further integration techniques, Euler's method, improper integrals, convergence and divergence of series, creation of polynomials used to approximate functions, calculus applied to vectors, parametric curves, and polar-coordinate functions. Students will prepare for the Advanced Placement



## Performing Arts

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.

#0803, 0804

2 sem.	Grade 9, 10, 11, 12	1 credit
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Symphonic Band membership is rewarding group for those who want to build their instrumental music skills. Attendance at rehearsals or performances during and outside of the school day is required. Public performance, in-school concerts and regional contests occur throughout the school year.

**Concert Band A/B** #0800, 0801  
2 sem. Grade 9, 10, 11, 12 1 credit  
*Prerequisite: Audition and instructor consent.*

Concert Band is by audition and selection only. Participation is dependent upon the individual's knowledge of intermediate/advanced music theory and capability of performing music of an advanced nature. 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 Choir A/B** #0813, 0814  
2 sem. Grade 9, 10, 11, 12 1 credit

This course is designed to introduce and develop basic singing techniques, sight-reading skills, and basic music theory concepts. The course gives students the opportunity to learn and appreciate more advanced music through participation and performance.

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

This is a select group of singers in grades 9-12 who demonstrate good music reading and singing skills. The Concert Choir seeks to provide a rich musical experience to those students who are motivated toward developing a high level of choral music achievement. Music may be performed in a cappella style and emphasis is on different styles of music related to performance.

**Women's Choir A/B** #0811, 0812  
2 sem. Grade 9, 10, 11, 12 1 credit

No audition needed. This choir is available to students who have not had previous singing experience and would like to expand their basic choral skills for good ensemble singing. Members of the women's choir sing a variety of music covering many different styles and time periods.

**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.

**Movement / Dance** #0856  
1 sem. Grades 9, 10, 11, 12 0.5 credit

This course is designed as an introduction to basic modern dance technique, through a lens of composition, dance history, and physical theatre. Students will learn the elements of dance and the basics of physical theater through exploration and practice. In this class students will develop their strength, flexibility, coordination, balance, memory, and performance skills. Students will learn the history and philosophy of various forms of dance and physical theatre through lectures, discussions, readings, videos, and written work.

**Actor's Studio** #0858  
1 sem. Grades 9, 10, 11, 12 0.5 credit

This course emphasizes the basic skills and techniques of the actor including concentration, imagination, observation, and ensemble. The course provides students the opportunity to investigate the craft of acting, while encouraging guided practice of improvisation, scenes from comedic and dramatic plays, and acting training techniques, which develop performance skills. This course cultivates a sense of community among the participants and heightens each student's self-confidence.



**HISTORY OF BROADWAY** #  
1 Sem. Grades 9, 10, 11, 12 0.5 credit

This course is designed to expose students to the rich history, heritage and evolution of the American Musical Comedy

leading to a vast knowledge of New York's theatrical history from Vaudeville through modern day integrated musicals through the use of audio and visual media. Students will also develop an understanding of the production aspects of the theater world from the points of view of directors, producers and behind-the-scenes technicians.

## 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 PE 1 and one elective PE class. All students are required to take Health 10 for high school 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 taken prior to registering for an elective PE course. This core course is required for high school graduation.

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

**Basic Training** #0918  
1 sem. Grade 10, 11, 12 0.5 credit  
*Prerequisite: PE 1*

This class will include both weight training and aerobic conditioning. It is for those that wish to get in a good workout within the school day. Workouts may be done as a whole class, while other workouts will be individualized. This class is designed for students interested in general conditioning and will review concepts covered in PE 1.

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

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.

**Personal Best** #0919  
1 sem. Grade 10, 11, 12 0.5 credit  
*Prerequisite: PE 1*

This class is designed for those who wish to take their personal fitness status to the next level. It is intended for athletes and other students who are highly motivated to work on improving their muscular strength, speed, agility, flexibility and cardiovascular endurance. This is a perfect off- season or in-season conditioning class. Student-specific programs will be developed and monitored. Personal Best is an in-depth look into training principles and application. If there would be an honors physical education course, Personal Best would be it! Get yourself ready for those after school activities and for life with Personal Best.

**\*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 first aid. 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)	College Preparation (4 years)
9 <sup>th</sup>	Environmental Science	Environmental Science	Pre AP Physics
10 <sup>th</sup>	Physics w/Astronomy	Physics w/Astronomy	Biology and Chemistry
11 <sup>th</sup>	Biology	Biology	AP Biology, AP Chemistry, or AP Physics, ARCC
12 <sup>th</sup>	Additional Science credits are optional	Chemistry	AP Biology, AP Chemistry, or AP Physics, ARCC

**\*AP Biology A/B** #1004, 1005  
2 sem. Grade 10, 11, 12 1 credit

*Prerequisite: AP application to demonstrate that the student has earned grades of A or B in Physics with Astronomy. Chemistry is recommended before AP Biology. 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 is a college-level course is designed for interested 10th-12th grade students who have met the prerequisites listed above. AP Biology is the equivalent of a college freshmen-level biology course. Concepts covered include: molecules, cells, heredity, evolution, organisms, organ systems, and ecology.



Students will practice reading at the college level, note taking, designing experiments, analyzing data, and writing lab reports. Examples of labs include analyzing the genetics of fruit flies, inserting glow genes in bacteria, and measuring the rate of enzyme catalysis. Significant time will be spent practicing how to take multiple-choice tests and how to answer essay questions. Students are expected to take the AP exam in May. Consistent attendance is critical for success in AP courses.

**\*Environmental Science A/B**

#1009, 1010  
2 sem. Grade 9 1 credit

This is an introductory science course designed to acquaint students with how science shapes the world around them. 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: Successful completion of Environmental Science.*

Physics 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; or Pre AP Physics with Astronomy.*

Biology is a required course usually taken in the junior year. 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 or Pre AP Physics with Astronomy.*

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, gases, acid-base theory, salts and oxidation. Students will learn to use mathematical analysis to analyze experimental data.

**Botany**

#1018

1 sem. Grade 11, 12 0.5 credit  
*Prerequisite: Biology*

Botany is an elective science class. This course will include plant anatomy and physiology and will include the cultivation of plants. Students should expect to be active participants and will be outside for some class periods.

**ARCC Interpretive**

**Chemistry**

#COL1014, COL1015

2 sem. Grade 11, 12 1 credit  
*See your Dean for qualifications*

This community college course is the equivalent of Anoka Ramsey Community College Interpretive Chemistry: CHEM



1020 course. Introductory course emphasizing elementary principles and applications intended for non-science and allied health majors. Topics include matter, measurement, atomic theory, bonding theory, nomenclature, organic chemistry, stoichiometry and the mole concept, reactions, liquids and solids, solutions, and acid-base chemistry.

**Anatomy & Physiology A/B** #1013, 1014  
2 sem. Grade 11, 12 1 credit  
*Prerequisite: C or better in Biology or instructor approval.*

In this upper-level course, students will study the anatomy and physiology of the organs and organ systems in the human body. Students will memorize the location and function of the parts of each body system. Diseases and dysfunctions of the human body will also be studied. First semester will include the study of the skeletal, muscular, integumentary, nervous, and cardiovascular systems.

Second semester will include the study of the endocrine (glands), lymphatic, respiratory, digestive, urinary, and reproductive systems. In this interactive class, dissections include 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.

**\*AP Physics A/B** #1024, 1025  
2 sem. Grade 11, 12 1 credit  
*Prerequisites:*  
*AP application to show completion of:*  
1. *Physics with/Astronomy with a B or higher;*  
2. *Pre-Calculus with a B or higher; and*  
3. *Successful completion of/or concurrent registration in Calculus.*

*Students that are not concurrently enrolled in Calculus can be allowed only with teacher approval, and only if they earned very strong marks in pre-requisites 1 and 2. Students should have the ability to read well above grade level.*

AP Physics C is a college-level class. AP Physics C is designed to equip students with the appropriate lab and problem solving skills to pass the AP Physics exam. Students may receive college credit if they pass the AP exam. AP Physics C is an intense hands-on class that uses lab experience to investigate the world around us. This course will investigate in detail the concepts of motion, forces, momentum, and energy. This course is calculus-based, but it is designed for students who have a strong background in algebra, geometry, and trigonometry. AP Physics C students will study the topics of physics through investigation and experimentation. This course will develop rigorous problem solving and lab skills that will equip them to do well in any college level science course. Students are expected to take the AP exam in May.

**ARCC Environmental Science + Lab** #COL1008 and 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.

**ARCC General Physics I** #COL1016, COL1017  
2 sem. Grade 11, 12 1 credit  
*See your Dean for qualifications*

This community college course is the equivalent of Anoka Ramsey Community College General Physics I: PHYS 1317 course. This course uses an algebra-based mathematical representation. Topics include kinematics, Newton's laws of motion, energy, momentum, rotational motion, fluids, gravitation, oscillations and waves, and thermodynamics.



## Social Studies

Social Studies credits beyond the requirements can count as electives.

Social Studies Requirements	
Grade	Course
9 <sup>th</sup>	Civics and Pre AP Human Geography
10 <sup>th</sup>	World History or AP World History
11 <sup>th</sup>	US History or AP US History
12 <sup>th</sup>	Economics or AP Economics

**Economics** #1111  
1 sem. Grade 12 0.5 credit

This required class is an overview and introduction to economics. Economics is the study of how society allocates a limited amount of resources to satisfy unlimited wants and needs. Microeconomics focuses on individual economic choices and decision-making, while macroeconomics examines the economy as a whole. Topics such as interest rates, inflation and unemployment are covered. In addition, this class will spend time discussing personal finance topics such as investments and taxes.

**Civics** #1120  
1 sem. Grade 9 0.5 credit

This one semester course is 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 government's foundation and development in this country.

**Pre AP Human Geography** #1120  
2 sem. Grade 9 1 credit

This one semester class is required for all 9th graders. It is designed as a complement to the information from eighth grade. The focus will be on Europe and Africa with specific units on population change, wealth, ethnicity; the impact of people on the environment; and the impact of history on today's people. Students will use a variety of sources including maps, texts, and websites to understand the world today.

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

This required world history course is a survey (overview) of recurring themes of human experience common to civilizations around the globe. Studying world history at this level can show how contemporary issues are rooted in the changes that have shaped the course of history. As students examine the historical roots of significant events, ideas, movements, religions, cultures and phenomena, they will start to recognize the contributions and patterns of people around the world.

**American Indian Studies** #1126, 1127  
1 sem. Grade 9, 10, 11, 12 0.5 credit

This course is a survey of the living, breathing history of Native Americans in North America. Over the course of the semester, students will study the Indian experience from Pre-Columbian times, through the triumphs and tragedies of American expansion, to the modern expressions of Native American culture in the 21st Century. Specifically, students will focus on Ojibwe and Dakota history and the continuing experiences of Indians in Minnesota today. Through guest speakers, outdoor excursions, connections in the Blooming Heights garden, book and film studies, and field trips, students will engage with the material in a hands-on manner. These hands-on experiences will open students to Native American identities, stereotypes, and changing narratives. Ultimately, they will be challenged through discussions and debates on how to reconcile the rich history of Indians in the Americas with the ever-changing politics of expansion and diversity in the United States.

**\*US History A/B** #1105, 1106  
2 sem. Grade 11 1 credit

This required survey (overview) course covers political, social, economic, diplomatic and domestic issues. Specific topics will be stressed as independent units within the chronological presentation. However, these topics will also be developed to show how they relate and interact with the overall evolution of the United States of America. Specific topics which will be stressed are minorities, the Civil War, the progressive movement, the labor movement, immigration, industrialization, political parties, America's role as a world leader and America's future.

**\*AP World History A/B** #1115, 1116  
2 sem. Grade 10, 11, 12 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.*

In Advanced Placement World History, the course content is presented with more in-depth analysis of historic and geographic themes than in general world history. Emphasis will be placed on developing analytical skills as students study primary source documents. Students will also work to improve their writing and other communication skills in preparation for the AP exam in May. 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. Students should be prepared for a significant amount of homework and high expectations for class involvement.

**\*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.*

This AP course is offered for advanced, motivated juniors seeking a very rigorous and in-depth study of U.S. history. Students will also work to improve their writing and other communication skills in preparation for the AP exam in May. 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.

**\*AP US Government and Politics** #1132  
1 sem. 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.*

The AP course in United States Government and Politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes.

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 Comparative Government & Politics** #1133  
1 sem. 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.*

The AP Course in Comparative Government and Politics introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in process and policy outcomes, and to communicate to students the importance of global political and economic changes.

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.

**ARCC American Politics & Government** #COL1018, COL1019  
2 sem. Grade 11, 12 1 credit  
*See your Dean for qualifications*

This community college course is the equivalent of Anoka Ramsey Community College American Politics and Government: POLS 1111 course. Designed to provide students with an understanding of the American political system: U.S. Constitution, federalism, mass media, political parties, interest groups, Presidency, Congress, federal bureaucracy, the courts, civil liberties and rights, and more.

**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 elective course. This class provides students with an overview of multiple aspects of psychology. Topics covered in this class include sensation and perception, sleep and dreams, motivation, emotion, adolescence, mental disorders, personality and gender differences. Students who take this class should be prepared for lively and frequent discussion on a range of issues related to psychology and you. In addition, students get experience in personality testing, behavior modification and psychological profiling.

## 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.

**Arabic 1 A/B** #0435, 0436  
2 sem. Grade 9, 10, 11, 12 1 credit

This course aims to teach complete beginners the basics of Arabic with respect to the four language skills - listening, speaking, reading and writing. Students will be introduced to the cultures and societies of the Arabic speaking world. Vocabulary and grammar will be presented in a communicative way in a variety of situations, e.g. making introductions, giving directions, buying things, making telephone calls and so on. The emphasis will be on the spoken language, as well as on providing a foundation of basic Arabic script. As the school is implementing one to one laptop program, we will be using computers in everyday classes.

**Arabic 2 A/B** #0435, 0436  
2 sem. Grade 9, 10, 11, 12 1 credit  
*Prerequisite: Successful completion of Arabic 1 or placement test.*

Arabic 2 continues the basics of Arabic 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 Arabic.

