

CyberVillage

A C A D E M Y

Inspiring, challenging, and preparing
students on campus & online

Cyber Village Academy High School Course Catalog 2015-2016



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About Us:

Cyber Village Academy is a K-12th grade public charter school in St. Paul, MN that offers a blended on-campus and online approach to education.

We offer three main sets of courses in the High School program:

- Fusion courses are classes that are offered on campus and online in a hybrid model. You will take part in general classroom activities and then have flexible guided work time when you are not in a class. This is the most common choice among our high school students.
- Online CVA These are courses that may be taken online through CVA's online curriculum. These courses offer the rigor of any other course with the flexibility of working and attending class from anywhere you can connect to the internet. Online CVA courses are still taught by a CVA teacher, but in an online setting and curriculum.
- Online Partner courses are offered by Northern Star Online (NSO) and Socrates Online. NSO and Socrates Online are Minnesota public school partnerships leading the way in virtual learning.

Students may mix and match different learning formats in any way they choose. For example a student could take American Lit with Fusion and take U.S. History through CVA's online curriculum during the same semester.

It is suggested that students take 6 full credits per year consisting of at least 4 Fusion courses. Students with less experience taking online courses should take a larger Fusion load.

CVA 2015 Graduation Requirements

- Completion of 22 year long credits

- Completion of the minimum year long credits per academic area as follows :
 - o Language Arts, 4 Credits
 - o Fine Arts, 1 Credit
 - o Social Studies, 3.5 Credits
 - o Physical Education & Health, 1 Credit
 - o Mathematics, 3 Credits (Must complete Algebra 2)
 - o Science, 3 Credits Including a biology credit
 - o Electives, 6.5 Credits

These graduation requirements align with the State of Minnesota's graduation requirements.

Course Index

<p>Language Arts:</p> <ul style="list-style-type: none">○ American Literature (7)○ British Literature (7)○ Women’s Literature (7)○ World Literature (8)○ Creative Writing (8)○ Speech (9)○ L.A. Independent Study (9) <p>Social Studies:</p> <ul style="list-style-type: none">○ U.S. History (10)○ World History (10)○ Government (10)○ Economics (11)○ Geography (11) <p>Math:</p> <ul style="list-style-type: none">○ Consumer/Practical HS Math (12)○ Intermediate Algebra (12)○ Geometry (12)○ Algebra 2 (12)○ Pre Calculus (13)○ Calculus (13)	<p>Science:</p> <ul style="list-style-type: none">○ Physical Science w/ E & S (14)○ Biology (14)○ Chemistry (14)○ Physics (14)○ Environmental Science (15) <p>World Language:</p> <ul style="list-style-type: none">○ Spanish 1 (16)○ Spanish 2 (16)○ Spanish 3/4 (16) <p>Art:</p> <ul style="list-style-type: none">○ High School Arts (17)○ High School Performance (17) <p>P.E. and Electives</p> <ul style="list-style-type: none">○ Physical Education (18)○ Sociology (18)○ European History (18)○ Societies in Science Fiction (19)○ High School Tech (19)○ Other Electives (20)
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Fusion Language Arts Offerings:

Course Title: American Literature		Local Course Number:	
Grade level Suggestion: Any		MCCC Classification Number: 01054	
Course Level: G		Prerequisites: None	
Standards Addressed: State		Grad Requirement: Language Arts	
Delivery method: ✓ Fusion	Description: This is a full-year class for high school students covering various reading and writing standards listed in the Minnesota State Standards. Units include an examination of literature written by prominent American authors. Activities include various novel units that include the integration of related reading in other genres such as poetry, short stories, drama and non-fiction media. This class involves listening and speaking skills, unit tests and projects, independent book projects and SSR (silent sustained reading), collaborative work, discussion and various writing assignments. Students will respond to literature in a variety of ways, such as through analysis and personal reflection. Major reading assignments include but are not limited to Of Mice and Men, A Raisin in the Sun, The Great Gatsby, Death of a Salesman and Perks of Being a Wallflower.		

Course Title: British Literature		Local Course Number:	
Grade level Suggestion: Any		MCCC Classification Number: 01056	
Course Level: G		Prerequisites: None	
Standards Addressed: State		Grad Requirement: Language Arts	
Delivery method: ✓ Fusion	Description: This is a full-year class for high school students covering various reading and writing standards listed in the Minnesota State Standards. Units include an examination of literature written by prominent British authors. Activities include various novel units that include the integration of related reading in other genres such as poetry, short stories, drama and non-fiction media. This class involves listening and speaking skills, unit tests and projects, independent book projects and SSR (silent sustained reading), collaborative work, discussion and various writing assignments. Students will respond to literature in a variety of ways, such as through analysis and personal reflection. Major reading assignments include but are not limited to Shakespeare plays, 1984, Canterbury Tales and Alice's Adventures in Wonderland.		

Course Title: Women's Literature		Local Course Number:	
Grade level/Sequence: Any		MCCC Classification Number: 01064	

Course Level: G		Prerequisites: None
Standards Addressed: State		Grad Requirement: Language arts
Delivery method: ✓ Fusion	Description: This is a semester class for high school students covering various reading and writing standards listed in the Minnesota State Standards. Units include an examination of literature by female authors or with prominent images of female characters.. Activities include various novel units that include the integration of related reading in other genres such as poetry, short stories, drama and non-fiction media. This class involves listening and speaking skills, unit tests and projects, independent book projects and SSR (silent sustained reading), collaborative work, discussion and various writing assignments. Students will respond to literature in a variety of ways, such as through analysis and personal reflection. Major reading assignments include but are not limited to A Room of One's Own, The Yellow Wallpaper, The Help, and various poems and essays by authors such as Virginia Woolf, Carole Ann Duffy, Emily Dickinson and Maya Angelou.	

Course Title: World Literature		Local Course Number:
Grade level/Sequence: Any		MCCC Classification Number: 01058
Course Level: G		Prerequisites: None
Standards Addressed: State		Grad Requirement: Language Arts
Delivery method: ✓ Fusion	Description: This is a semester class for high school students covering various reading and writing standards listed in the Minnesota State Standards. Units include an examination of literature by authors from around the world. Activities include various novel and epic units that include the integration of related reading in other genres such as poetry, short stories, drama and non-fiction media. This class involves listening and speaking skills, unit tests and projects, independent book projects and SSR (silent sustained reading), collaborative work, discussion and various writing assignments. Students will respond to literature in a variety of ways, such as through analysis and personal reflection. Major reading assignments include but are not limited to The Odyssey, the Epic of Gilgamesh, Sundiata, The Aeneid, In the Time of the Butterflies and various world fables.	

Course Title: Creative Writing		Local Course Number:
Grade level/Sequence: Any		MCCC Classification Number: 01104
Course Level: G		Prerequisites: None
Standards Addressed: State		Grad Requirement: Language arts

Delivery method: ✓ Fusion	Description: This is a semester class for high school students covering various reading, language and writing standards within the Minnesota State Standards. Units include an examination of creative writing by various authors within multiple genres. Students will respond to literature in a variety of ways, such as through analysis and personal reflection and apply this learning to their own writing. Students will learn about a wide range of creative writing genres including but not limited to poetry, short stories, creative non-fiction, drama, entertainment writing, reviewing and blogging.
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Course Title: Speech		Local Course Number:	
Grade level/Sequence: Any		MCCC Classification Number: 01151	
Course Level: G		Prerequisites: None	
Standards Addressed: State		Grad Requirement: Language arts	
Delivery method: ✓ Fusion	Description: This is a semester class for high school students emphasizing writing, viewing and listening standards within the Minnesota State Standards. Units include a variety of speaking assignments paired with viewing and listening to examples. Students will interpret and analyze existing speeches and compose their own creative and formal pieces. Each assignment analyzes audience, purpose, fluency and vocal and physical techniques for public speaking. Speaking assignments include but are not limited to prose and poetry interpretations, persuasive speaking, after-dinner speaking and informative speaking.		

Course Title: L.A. Independent Study (Year Long or Sem)		Local Course Number: 1009	
Grade level/Sequence: 11, 12 Seq 3/4		MCCC Classification Number: 01997	
Course Level: G		Prerequisites: English 2 (1002)	
Standards Addressed: State		Grad Requirement: Language Arts	
Delivery method: ✓ Fusion	Description: Independent study courses are often conducted with instructors as mentors and enable students to explore particular topics within the field of language arts. These courses may serve as an opportunity for students to expand their expertise, explore a topic in detail, or develop advanced skills.		

Fusion Social Studies Offerings:

Course Title: U.S. History (Year Long)		Local Course Number: 2001
Grade level/Sequence: 10th grade suggested		MCCC Classification Number: 04101
Course Level: G		Prerequisites: None
Standards Addressed: State		Grad Requirement: Social Studies
Delivery method: ✓ Fusion	Description: This year long course follows the Minnesota standards for U.S. History. It is a survey from the pre European influence Native Americans to the present day United States. This course covers main turning points throughout U.S. History including but not limited to: The columbian exchange, the revolutionary war, the antebellum period, the civil war and reconstruction, the industrial revolution, the great depression, World War 2 and beyond.	

Course Title: World History (Year Long)		Local Course Number: 2002
Grade level/Sequence: 9th grade suggested		MCCC Classification Number: 04051
Course Level: G		Prerequisites: None
Standards Addressed: State		Grad Requirement: Social Studies
Delivery method: ✓ Fusion	Description: The students will engage world history through the prism of humanities and cultural anthropology in a year long course. The critical elements of study in this course include anthropology, history, literature, painting, music, sculpture, architecture, and philosophy. These elements are not studied in isolation from one another but within an interdisciplinary context of important historical developments in science, technology, political thought, and other human achievements. The course will progress through a thematic and chronological construction that begins with prehistory and works through the twentieth century. A major goal of the course is to help students understand their own world through a careful examination of cultural heritage in a global perspective. This course will also address historical research and fulfill the social studies research project requirement, process/inquiry standard, and college readiness standards through the National History Day project. Students will use their newly acquired skills to research a historical topic of their own choosing and present it in wide variety of formats.	

Course Title: Government (Sem)		Local Course Number: 2003
Grade level/Sequence: 12th grade suggested		MCCC Classification Number: 04151
Course Level: G		Prerequisites: None
Standards Addressed: State		Grad Requirement: Social Studies

Delivery method: ✓ Fusion	Description: This Course provides an overview of the structure and functions of the U.S. government and political institutions and examines constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. This course will examine the structure and function of state and local governments and cover selected economic and legal topics.
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Course Title: Economics (Sem)	Local Course Number: 2004
Grade level/Sequence: 12th grade suggested	MCCC Classification Number: 04201
Course Level: G	Prerequisites: None
Standards Addressed: State	Grad Requirement: Social Studies
Delivery method: ✓ Online CVA	Description: This Course provides an overview of economics with emphasis on the principles of microeconomics and the U.S. economic system. Topics include principles of macroeconomics, international economics, and comparative economics. Economic principles may be presented in formal theoretical contexts, applied contexts, or both.

Course Title: Geography (Sem)	Local Course Number: 2005
Grade level/Sequence: 11th grade suggested	MCCC Classification Number: 04005
Course Level: G	Prerequisites: None
Standards Addressed: State	Grad Requirement: Social Studies
Delivery method: ✓ Online CVA	Description: This Course examines the patterns and processes that have shaped the ways in which humans understand, use, and alter the earth's surface. Students use spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their practice.

Fusion Math Offerings:

Course Title: Consumer/Practical High School Math (Year Long)		Local Course Number: 3001
Grade level/Sequence:		MCCC Classification Number: 02001
Course Level: R		Prerequisites: None
Standards Addressed: State		Grad Requirement: Elective
Delivery method: ✓ Fusion	Description: Provides standards based coverage of the math curriculum. Students will learn practical applications with math in the real world. Students work at their own pace, using Aleks software, and do projects that supplement their learning.	

Course Title: Intermediate Algebra(Year Long)		Local Course Number: 3003
Grade level/Sequence: Grade 9. Seq 1		MCCC Classification Number: 02055
Course Level: G		Prerequisites: Algebra I or the equivalent
Standards Addressed: State		Grad Requirement: Mathematics
Delivery method: ✓ Fusion	Description: Intermediate algebra includes studies beyond linear topics in algebra. Topics include systems of equations, polynomials, data and statistics, probability and simulation, transformations and connections to geometry.	

Course Title: Geometry (Year Long)		Local Course Number: 3004
Grade level/Sequence: Grade 9,10		MCCC Classification Number: 02072
Course Level: G		Prerequisites: Algebra I or the equivalent
Standards Addressed: State		Grad Requirement: Mathematics
Delivery method: ✓ Fusion	Description: This course includes both an abstract and formal approach to geometry, as well as practical uses of geometry. Includes geometry in two and three dimensions, inductive and deductive reasoning. Connections to algebra are included in the course.	

Course Title: Algebra II (Year Long)		Local Course Number: 3005
Grade level/Sequence:		MCCC Classification Number: 02143
Course Level: G		Prerequisites: Algebra I or the equivalent
Standards Addressed: State		Grad Requirement: Mathematics

Delivery method: ✓ Fusion	Description: The major focus of this course is the study of functions, including linear, quadratic and exponential functions. Probability and statistics are also emphasized in this course.
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Course Title: Pre-Calculus (Year Long)	Local Course Number: 3006
Grade level/Sequence: Grade 10+. Seq 3	MCCC Classification Number: 02110
Course Level: G	Prerequisites: Algebra II or the equivalent
Standards Addressed: State	Grad Requirement: Mathematics
Delivery method: ✓ Fusion	Description: A course that continues the study of functions in preparation for Calculus. Includes the study of polynomial, radical, logarithmic, exponential and logistic functions. Circular Trigonometry and graphs of trigonometric functions. Functions and their inverses, emphasis on graphing of functions.

Course Title: Calculus (Year Long)	Local Course Number: 3009
Grade level/Sequence: Grade 11, 12	MCCC Classification Number: 02121
Course Level: H	Prerequisites: Pre-Calculus
Standards Addressed: State	Grad Requirement: Mathematics
Delivery method: ✓ Fusion	Description: This course includes the study of functions, derivatives, integration, the definite and indefinite integral.

Fusion Science Offerings:

Course Title: Physical Science with Earth and Space Science (Year Long)		Local Course Number: 4001
Grade level/Sequence: 9		MCCC Classification Number: 03001
Course Level: G		Prerequisites: None
Standards Addressed: State		Grad Requirement: Science
Delivery method: ✓ Fusion	Description: An integrated course in Physical Science and Earth science. Course studies the nature of science, and technology, earth's systems, and the origin of the solar system. Physical science studies physical and chemical changes of matter, wave phenomena, and the electromagnetic spectrum.	

Course Title: Biology (Year Long)		Local Course Number: 4002
Grade level/Sequence: 10		MCCC Classification Number: 03051
Course Level: G		Prerequisites: None
Standards Addressed: State		Grad Requirement: Science
Delivery method: ✓ Fusion	Description: This course is designed as a 1 year course in the basics understanding of biological systems and the scientific method. Topics include the chemistry of life, cell structure and function, genetics, protein structure and function, and evolution.	

Course Title: Chemistry (Year Long)		Local Course Number: 4003
Grade level/Sequence:		MCCC Classification Number: 03101
Course Level: G		Prerequisites: None
Standards Addressed: State		Grad Requirement: Science
Delivery method: ✓ Fusion	Description: The structure of atoms, and composition of molecules, and structure of molecules. Types of chemical reactions, and balancing of chemical equations. The study of solutions, mixtures and suspensions. The quantitative basis of chemical reactions.	

Course Title: Physics (Year Long)		Local Course Number: 4004
Grade level/Sequence:		MCCC Classification Number: 03151
Course Level: G		Prerequisites: Algebra 2
Standards Addressed: State		Grad Requirement: Science

Delivery method: ✓ Fusion	Description:
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Course Title: Environmental Science (Year Long)	Local Course Number: 4005
Grade level/Sequence:	MCCC Classification Number: 03003
Course Level: G	Prerequisites: None
Standards Addressed: State	Grad Requirement: Science
Delivery method: ✓ Fusion	Description:

Fusion World Language Offerings:

Course Title: Spanish 1 (Year Long)		Local Course Number: 5001
Grade level/Sequence: N/A		MCCC Classification Number: 06101
Course Level: General		Prerequisites: none
Standards Addressed: State		Grad Requirement: Elective
Delivery method: ✓ Fusion	Description: Our primary task in Spanish 1 is to gain a thorough understanding of how verbs work in the present tense and in the simple future. We develop the ability to use the language to tell stories and to talk about what we like. We learn the vocabulary of the family and home, friends and pastimes, read <i>Las aventuras de Isabel</i> and finish the year with a swashbuckling reading/acting out/retelling of <i>Los piratas del Carib y el mapa secreto (Pirates of the Caribbean and the secret map)</i> by Mira Canion.	

Course Title: Spanish 2 (Year Long)		Local Course Number: 5002
Grade level/Sequence: Seq 2		MCCC Classification Number: 06102
Course Level: General		Prerequisites: Spanish 1
Standards Addressed: State		Grad Requirement: Elective
Delivery method: ✓ Fusion	Description: In Spanish 2 we review the present tense and learn how to use a type of verbs called the Reflexives, then dive into the past tenses for the rest of the year. We approach such subjects as the art and life of the Mexican Artist Frida Kahlo and how we express what is important to us, World Water scarcity and we examine the Alamo from both the American and Mexican sides through the novel <i>Los Rebeldes de Tejas</i> .	

Course Title: Spanish 3/4 (Year Long)		Local Course Number: 5003
Grade level/Sequence: Seq 3		MCCC Classification Number: 06103
Course Level: General		Prerequisites: Spanish 2
Standards Addressed: State		Grad Requirement: Elective
Delivery method: ✓ Fusion	Description: Spanish 3/4 deepens our ability to use the past tenses, introduces the compound tenses (using the helping verb 'have') and the conditional (if/would) forms. We explore children's literature, the conquest of the Aztecs by the Spanish and issues of human rights, immigration and migrant workers in California.	

Fusion Arts Offerings:

Course Title: HS Arts (Semester credit)		Local Course Number: 6001
Grade level/Sequence: N/A		MCCC Classification Number: 05120
Course Level: General		Prerequisites: None
Standards Addressed: State		Grad Requirement: Arts/Elective
Delivery method: ✓ Fusion	Description: students should: <ul style="list-style-type: none"> • understand how the arts play a role in developing and expressing personal and cultural identities • appreciate how the arts innovate and communicate across time and culture • explore, express and communicate ideas • become engaged listeners, observers and practitioners of the arts • develop self-confidence and self-awareness through art experiences • appreciate lifelong learning in and enjoyment of the arts. 	

Course Title: HS Music Performance (year long credit)		Local Course Number: 6003
Grade level/Sequence: N/A		MCCC Classification Number: 5151
Course Level: General		Prerequisites: none
Standards Addressed: State		Grad Requirement: Arts/Elective
Delivery method: ✓ Fusion	Description:	

Fusion Physical Education and Health Offerings:

Course Title: Physical Education (semester)		Local Course Number: 7001
Grade level/Sequence: 9-12		MCCC Classification Number: 08001
Course Level: G		Prerequisites: None
Standards Addressed: State		Grad Requirement: Phy. Ed./Elective
Delivery method: ✓ Fusion	Description: Course provide knowledge, experience and opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports and fitness/conditioning activities while using polar heart rate monitors daily.	

Fusion Electives:

Course Title: Sociology		Local Course Number:
Grade level/Sequence: 9-12		MCCC Classification Number: 04258
Course Level: G		Prerequisites: None
Standards Addressed: State		Grad Requirement: Elective
Delivery method: ✓ Fusion	Description: Sociology is the study of human interactions in groups. The course includes the basic units of sociological study: the history of sociology, the research method, culture, socialization, deviance & conformity, social organization, social institutions, social inequalities, and social change. While weaving in and out of these topics, we will explore how sociology pertains to the online world as well, with many a meme and hashtag to keep us company.	

Course Title: European History		Local Course Number:
Grade level/Sequence: 9-12		MCCC Classification Number: 04059
Course Level: G		Prerequisites: None
Standards Addressed: State		Grad Requirement: Elective
Delivery method: ✓ Fusion	Description: In the game of European history, you either win... or you die. This course plunges into European pre-history before exploring the high stakes worlds of Ancient Greece, Ancient Rome, the dark ages, medieval Europe, the Renaissance, the Enlightenment, the Age of Revolutions, World War I, the Great Depression, World War II, the Cold War, and the European Union in the current era.	

Course Title: Societies in Science Fiction		Local Course Number:	
Grade level/Sequence: 9-12		MCCC Classification Number: 05061	
Course Level: G		Prerequisites: None	
Standards Addressed: State		Grad Requirement: Elective	
Delivery method: ✓ Fusion		Description: This course will boldly go where no class has gone before - delving into the governments, naval structure, treatment of minorities and women, religion, conflict, non-organic life, species diversity, and technologies in the universe of Star Trek. The philosophy of creator Gene Roddenberry and his effect on society will live long and prosper through Captain Kildahl and her Starfleet recruits.	

Course Title: High School Tech		Local Course Number:	
Grade level/Sequence: 9-12		MCCC Classification Number: 10155	
Course Level: G		Prerequisites: None	
Standards Addressed: State		Grad Requirement: Elective	
Delivery method: ✓ Fusion		Description: This semester course will cover the basics of programming, including Javascript and HTML. In specific we will be focusing on drawing, animation, and web page design. This course also focuses on creating and editing the yearbook.	

Other Classes and Electives:

Here at CVA we work with Edmentum and partner with Northern Star Online so we have a robust list of available elective courses that change yearly.

These links will take you to current lists for Northern Star Online courses:

- [Northern Star Online Course List](#)