

# CyberVillage

A C A D E M Y

Inspiring, challenging, and preparing  
students on campus & online

## Cyber Village Academy High School PASCAL Course Catalog 2015-2016



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## Table of Contents

About us and our course offerings.....	04
Graduation Requirements.....	05
PASCAL Courses.....	06

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## About Us:

Cyber Village Academy is a K-12<sup>th</sup> grade public charter school in St. Paul, MN that offers a blended on-campus and online approach to education. PASCAL students have two options for classes.

- PASCAL 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). NSO is a Minnesota public school partner leading the way in virtual learning.

**It is suggested that students take 6 full credits per year. These courses must consist of at least 50% Cyber Village Academy courses. A student must take less than 50% of their courses through other online courses due to Minnesota law.**

## 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><b>Language Arts:</b></p> <ul style="list-style-type: none"><li>○ English 9 (7)</li><li>○ English 10 (7)</li><li>○ English 11 (7)</li><li>○ English 12 (8)</li></ul> <p><b>Social Studies:</b></p> <ul style="list-style-type: none"><li>○ U.S. History (9)</li><li>○ World History (9)</li><li>○ Government (9)</li><li>○ Economics (10)</li><li>○ Geography (10)</li></ul> <p><b>Math:</b></p> <ul style="list-style-type: none"><li>○ Consumer/Practical HS Math (11)</li><li>○ Intermediate Algebra (11)</li><li>○ Geometry (11)</li><li>○ Algebra 2 (11)</li><li>○ Pre Calculus (12)</li></ul>	<p><b>Science:</b></p> <ul style="list-style-type: none"><li>○ Physical Science (13)</li><li>○ Biology (13)</li><li>○ Chemistry (13)</li><li>○ Physics (14)</li></ul> <p><b>World Language:</b></p> <ul style="list-style-type: none"><li>○ Spanish 1 (15)</li><li>○ Spanish 2 (15)</li></ul> <p><b>Art:</b></p> <ul style="list-style-type: none"><li>○ Arts Appreciation (16)</li></ul> <p><b>P.E. and Electives</b></p> <ul style="list-style-type: none"><li>○ Physical Education (16)</li><li>○ Health (16)</li><li>○ High School Tech (17)</li><li>○ Other Electives (18)</li></ul>
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## PASCAL Language Arts Offerings:

<b>Course Title:</b> English 9		<b>Local Course Number:</b>
<b>Grade level Suggestion:</b> Any		<b>MCCC Classification Number:</b> 01001
<b>Course Level:</b> G		<b>Prerequisites:</b> None
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Language Arts
<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> English is the study of the creation and analysis of literature written in the English language. In English 9, you will study a variety of techniques to improve your reading comprehension and writing skills. The instruction covers many types of writing: creative, descriptive, expository, narrative, and persuasive. In English 9, you will read and analyze literature in different genres as well as practice skills related to good study habits. You will sharpen your writing skills as you evaluate literary works with regard to literary technique, form, and theme.	

<b>Course Title:</b> English 10		<b>Local Course Number:</b>
<b>Grade level Suggestion:</b> Any		<b>MCCC Classification Number:</b> 01002
<b>Course Level:</b> G		<b>Prerequisites:</b> None
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Language Arts
<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> English is the study of the creation and analysis of literature written in the English language. In English 10 you will explore the different literary devices used in short stories, such as subject, theme, mood, plot, and narration. You will read and analyze a variety of literary works to learn more about a particular literary device. The second unit covers many types of informational texts. In the third unit, you will read and study drama from a range of eras. In addition, you will complete writing activities in which you will employ analytical and persuasive skills. In English 10, you will also study a variety of techniques to improve your reading comprehension, writing skills, and grammar and mechanics.	

<b>Course Title:</b> English 11		<b>Local Course Number:</b>
<b>Grade level/Sequence:</b> Any		<b>MCCC Classification Number:</b> 01003
<b>Course Level:</b> G		<b>Prerequisites:</b> None
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Language arts

<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> English is the study of the creation and analysis of literature written in the English language. In English 11 you will study a variety of techniques to improve your reading comprehension and writing skills. The instruction covers many types of writing: creative, descriptive, expository, narrative, and persuasive. In English 11, you will read and analyze different genres in literature with an emphasis on American literary movements over time. You will also complete writing activities to evaluate literary works with regard to literary techniques, form, and theme.
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<b>Course Title:</b> English 12	<b>Local Course Number:</b>
<b>Grade level/Sequence:</b> Any	<b>MCCC Classification Number:</b> 01004
<b>Course Level:</b> G	<b>Prerequisites:</b> None
<b>Standards Addressed:</b> State	<b>Grad Requirement:</b> Language Arts
<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> English is the study of the creation and analysis of literature written in the English language. In English 12 you will explore the relation between British history and literature from the AngloSaxon period through the neoclassical era, including the works of Shakespeare. You will read and analyze a variety of literary works from this time period using relevant cultural and political history presented in each lesson. In English 12 you will also study a variety of techniques to improve your reading comprehension, writing skills, and grammar and mechanics. The instruction covers many types of writing: creative, descriptive, expository, narrative, and persuasive. In addition you will complete writing activities in which you will employ analytical and persuasive skills.



## PASCAL Social Studies Offerings:

<b>Course Title:</b> U.S. History		<b>Local Course Number:</b> 2001	
<b>Grade level/Sequence:</b> 10th grade suggested		<b>MCCC Classification Number:</b> 04101	
<b>Course Level:</b> G		<b>Prerequisites:</b> None	
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Social Studies	
<b>Delivery method:</b> ✓ PASCAL		<b>Description:</b> 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.	

<b>Course Title:</b> World History		<b>Local Course Number:</b> 2002	
<b>Grade level/Sequence:</b> 9th grade suggested		<b>MCCC Classification Number:</b> 04051	
<b>Course Level:</b> G		<b>Prerequisites:</b> None	
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Social Studies	
<b>Delivery method:</b> ✓ PASCAL		<b>Description:</b> 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.	

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

<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> 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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<b>Course Title:</b> Economics (Sem)		<b>Local Course Number:</b> 2004	
<b>Grade level/Sequence:</b> 12th grade suggested		<b>MCCC Classification Number:</b> 04201	
<b>Course Level:</b> G		<b>Prerequisites:</b> None	
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Social Studies	
<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> 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.		

<b>Course Title:</b> Geography (Sem)		<b>Local Course Number:</b> 2005	
<b>Grade level/Sequence:</b> 11th grade suggested		<b>MCCC Classification Number:</b> 04005	
<b>Course Level:</b> G		<b>Prerequisites:</b> None	
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Social Studies	
<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> 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.		

## PASCAL Math Offerings:

<b>Course Title:</b> Consumer/Practical High School Math (Sem)		<b>Local Course Number:</b> 3001
<b>Grade level/Sequence:</b>		<b>MCCC Classification Number:</b> 02001
<b>Course Level:</b> R		<b>Prerequisites:</b> None
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Elective
<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> When you buy goods and services, you are acting as a consumer. For example, you might buy a sandwich for lunch or pay a hair stylist for a haircut. Consumer Mathematics is designed to teach you about real-life financial situations that require everyday math skills. As a consumer, you will be earning, spending, and saving money. This course will help you make educated and responsible decisions regarding your finances.	

<b>Course Title:</b> Intermediate Algebra		<b>Local Course Number:</b> 3003
<b>Grade level/Sequence:</b> Grade 9. Seq 1		<b>MCCC Classification Number:</b> 02055
<b>Course Level:</b> G		<b>Prerequisites:</b> Algebra I or the equivalent
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Mathematics
<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> 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.	

<b>Course Title:</b> Geometry		<b>Local Course Number:</b> 3004
<b>Grade level/Sequence:</b> Grade 9,10		<b>MCCC Classification Number:</b> 02072
<b>Course Level:</b> G		<b>Prerequisites:</b> Algebra I or the equivalent
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Mathematics
<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> 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.	

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

<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> 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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<b>Course Title:</b> Pre-Calculus	<b>Local Course Number:</b> 3006
<b>Grade level/Sequence:</b> Grade 10+. Seq 3	<b>MCCC Classification Number:</b> 02110
<b>Course Level:</b> G	<b>Prerequisites:</b> Algebra II or the equivalent
<b>Standards Addressed:</b> State	<b>Grad Requirement:</b> Mathematics
<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> 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.

## PASCAL Science Offerings:

<b>Course Title:</b> Physical Science		<b>Local Course Number:</b> 4001
<b>Grade level/Sequence:</b> 9		<b>MCCC Classification Number:</b> 03001
<b>Course Level:</b> G		<b>Prerequisites:</b> None
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Science
<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> In Integrated Physics and Chemistry, you will first learn about the “basics” of physics, since physics is actually the foundation of chemistry. In this course, you will learn how to describe and analyze motion, how forces interact with matter, and how to further describe these interactions with the aid of the concepts of energy and momentum. You will also learn about waves, electricity, and magnetism. You will then begin your study of chemistry. This includes the atomic and molecular structures that result in different chemical properties and the concepts and tools that will enable you to predict chemical properties and chemical reactions. You will learn about key types of chemical relationships and reactions, including solutions and acid-base reactions. Finally, you will extend your knowledge into the areas of thermal and nuclear energy.	

<b>Course Title:</b> Biology		<b>Local Course Number:</b> 4002
<b>Grade level/Sequence:</b> 10		<b>MCCC Classification Number:</b> 03051
<b>Course Level:</b> G		<b>Prerequisites:</b> None
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Science
<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> 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.	

<b>Course Title:</b> Chemistry		<b>Local Course Number:</b> 4003
<b>Grade level/Sequence:</b>		<b>MCCC Classification Number:</b> 03101
<b>Course Level:</b> G		<b>Prerequisites:</b> None
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Science
<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> 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.	

<b>Course Title:</b> Physics		<b>Local Course Number:</b> 4004	
<b>Grade level/Sequence:</b>		<b>MCCC Classification Number:</b> 03151	
<b>Course Level:</b> G		<b>Prerequisites:</b> Algebra 2	
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Science	
<b>Delivery method:</b> ✓ PASCAL		<b>Description:</b> Physics is one of the three main fields of science, along with biology and chemistry. If asked what biology and chemistry deal with, most of us can come up with a one-word answer: life and chemicals respectively. Physics though, often seems like a grab bag of topics, including motion, magnets, machines, light, sound, and electrical circuits.	

## Fusion World Language Offerings:

<b>Course Title:</b> Spanish 1		<b>Local Course Number:</b> 5001	
<b>Grade level/Sequence:</b> N/A		<b>MCCC Classification Number:</b> 06101	
<b>Course Level:</b> General		<b>Prerequisites:</b> none	
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Elective	
<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> 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/re-telling of <i>Los piratas del Carib y el mapa secreto (Pirates of the Caribbean and the secret map)</i> by Mira Canion.		

<b>Course Title:</b> Spanish 2		<b>Local Course Number:</b> 5002	
<b>Grade level/Sequence:</b> Seq 2		<b>MCCC Classification Number:</b> 06102	
<b>Course Level:</b> General		<b>Prerequisites:</b> Spanish 1	
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Elective	
<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> 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> .		

## PASCAL Art Offerings:

<b>Course Title:</b> Arts Appreciation (Sem)		<b>Local Course Number:</b> 6001
<b>Grade level/Sequence:</b> N/A		<b>MCCC Classification Number:</b> 05151
<b>Course Level:</b> General		<b>Prerequisites:</b> None
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Arts/Elective
<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> Art has played a significant role in every major civilization throughout the history of man. The emergence of different art forms often reflects the values that a civilization deems important: religion, labor, love, political change, or even commerce. Since artwork and cultural values are so closely related, studying art is a compelling way to learn about the people who produced it.	

## PASCAL Physical Education and Health Offerings:

<b>Course Title:</b> Physical Education (Sem)		<b>Local Course Number:</b>
<b>Grade level/Sequence:</b> 9-12		<b>MCCC Classification Number:</b> 08001
<b>Course Level:</b> G		<b>Prerequisites:</b> None
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Phy. Ed./Elective
<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> Your body is a machine that has certain needs—if you treat it well, it should be able to serve you well. But what can you do to promote a fit and healthy body? A course in physical education can show you. By definition, physical education is instruction in exercise and physical activity. It teaches you how to maintain your personal fitness, how to measure different aspects of physical fitness, and how to avoid injury while exercising. It’s all about getting active and setting your body in motion. By measuring health and fitness with objective data, it’s possible to improve your health in a methodical way. Exercise helps you feel good about yourself and helps you sidestep the health problems that often accompany poor levels of fitness	

<b>Course Title:</b> Health (Sem)		<b>Local Course Number:</b>
<b>Grade level/Sequence:</b> 9-12		<b>MCCC Classification Number:</b> 08051
<b>Course Level:</b> G		<b>Prerequisites:</b> None
<b>Standards Addressed:</b> State		<b>Grad Requirement:</b> Phy. Ed./Elective



<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> Everyone needs to take care of their body, but we aren't necessarily born with the knowledge of how to go about it. It's important to invest time and energy into understanding what it means to be healthy. There are many activities you can engage in which are dangerous for your long-term health, so you need to know how to identify and avoid these activities. It's also important to identify lifestyles which will lead to a longer, more enjoyable life. This course will guide you through lifestyle choices you will make which will ultimately impact your life in meaningful ways.
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## PASCAL Electives:

<b>Course Title:</b> Technology	<b>Local Course Number:</b>
<b>Grade level/Sequence:</b> 9-12	<b>MCCC Classification Number:</b> 10001
<b>Course Level:</b> G	<b>Prerequisites:</b> None
<b>Standards Addressed:</b> State	<b>Grad Requirement:</b> Elective
<b>Delivery method:</b> ✓ PASCAL	<b>Description:</b> This course will cover basic computer hardware and software and productivity applications such as word processing software, spreadsheet software, and presentation software. This course also covers the Internet and emerging technologies.

## 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.

This link will take you to current lists for Northern Star Online.

- [Northern Star Online Course List](#)