



MNVA

Minnesota
Virtual Academy

HOUSTON PUBLIC SCHOOLS

Registration Guide

2024-2025

“Our Mission is to Discover, Develop, and Achieve the Potential within ALL Learners”

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To MNVA Students:

Course registration is an **important** step in planning and making decisions about **your** future. As you consider which courses you will take, please **think carefully** about your future plans and the multitude of career pathways you have to choose from. Would you like to go to a trade school? Join the armed forces? Get a job? Go to college? Has your job even been invented yet? Don't be afraid to try something new or challenging. Think about what you may want to do in the future and plan for classes that fit your interests. Also, you may want to pick a class to help you develop skills you may need to improve before you graduate. Though many of the classes at each grade level are set, you need to decide which level; core or honors meets your academic abilities and future goals. Your choice of electives can help you explore areas of interest or help you to develop new skills.

As you look through the registration guide, **check the graduation requirements** to see which classes are required at each grade level. Learn more about the electives we offer and discover whether a desired class has a pre-requisite. Choose courses seriously. Once students register this information is used to develop schedules, assign teachers and determine which courses will be offered in the most efficient manner. We encourage each of you to talk about your classes and future plans with your families. Ask your teachers and school counselor for their advice. Gather all the information you can and have fun planning your future at MNVA!

To MNVA Families:

At MNVA, we encourage you to take an **active role** in course registration and career planning with your child. After high school, our students are entering an ever-changing world with opportunities that may not even be invented yet. Sound decision making is very important. Parents are a student's most influential teacher. You know your child best. As you look through the course guide with your child, encourage them to explore areas of career interests, talents and abilities. Please take time to discuss your ideas about the importance of a good education. Expect diligent study, good time management and set high expectations for your student to achieve. As a parent your actions nurture your child's curiosity, creativity, confidence and self-esteem. Once again, we encourage you to be an active participant with school staff and support your son and daughter on their journey. **You and your child are vital members of the MNVA team.**

Our master schedule is developed after students complete their initial registration. To be as efficient as possible, your student should only sign up for classes they truly intend to take. Schedule changes after the start of the school year are kept to a minimum. We are proud of the quality of courses we offer and the excellent instruction your student will receive at MNVA. Together we will work with you and your student to provide the best possible education.

Angela Specketer, Principal

Natasa Tunjic Stjepanovic, HS Assistant Principal

Shelley Gates, HS Assistant Principal

Registration Instructions

In order to complete your course registration for the 2024-2025 school year, please follow the steps below.

(These steps only apply to current MNVA students that are registering for courses for the 2024-2025 school year. The process for new students differs slightly. This registration guide should be used as a resource, but new students will work with a placement counselor for course selection)

Materials Needed:

1. [Course Registration Video](#)
2. [Course Registration Slides](#)
3. 2024-2025 Student Course Registration Guide
4. Links to Google Course Registration Form (be sure to only click on the form that applies to you)
 - [Current 8th Grade Students](#) - entering 9th grade (Class of 2028)
 - [Current 9th Grade Students](#) - entering 10th grade (Class of 2027)
 - [Current 10th Grade Students](#) - entering 11th grade (Class of 2026)
 - [Current 11th Grade Students](#) - entering 12th grade (Class of 2025)
 - [Current 12th Grade Students needing additional credits](#)

*It may be helpful to look at your Grad Plan and current course list in D2L so you know how many credits you have earned, which classes you have passed and which classes you are taking.

Steps to Complete Your Registration:

1. **Watch the Course Registration Video**
This video covers why course registration is important, what you should consider when choosing classes and instructions for completing the process.
2. **Review and reference the Course Registration Guide**
The registration guide has recommendations for which classes fit in our career pathways, which classes are required for graduation, and which core classes are needed.
3. **Complete the Course Registration Form**
Once you have completed the first two steps, open the Google link provided above for your course registration form. Complete this form in its entirety. If you have questions regarding course selection, please reach out to your counselor.
4. **Congratulations! You have registered for your 2024-2025 classes!**

If you have any questions regarding this process, please attend the Help Session Class Connects that are scheduled and/or connect with your school counselor.

Additional Scheduling Information

Please read through this guide carefully and take the following steps as you go through the process:

- Know what courses are required for graduation.
- Give special consideration to the course level chosen; core, Honors or AP (for upperclassmen).
- Read course descriptions carefully. If the description found in this guide does not give you enough information and you have further questions, reach out to your teachers, counselors and/or advisor for additional information.
- Pay attention to the prerequisites that some courses may require.
- Consider Foreign Language requirements. Many colleges require that a student take a minimum of two consecutive years of the same foreign language.
- Discuss course choices and future plans with your parent/guardian.

Students are encouraged to make careful course selections during registration because it directly affects the master schedule for the upcoming school year. For this reason, only in certain situations can a schedule be changed.

No changes can be made unless the request meets one of the following:

- Student has not completed the prerequisite
- Student failed a prerequisite
- Medical Need (requires official documentation)
- Educational Options (i.e. PSEO)
- Error (student is scheduled for the wrong course level)
- IEP dictates a schedule change

Examples of requests for changes that will not be honored include the following:

- Requesting a different teacher (without administrative approval)
- Requesting classes with friends
- Students changing their minds about classes for which they registered

Please keep in mind, some courses may not be held based on low enrollment. If changes are made, students will be notified and allowed to select an alternate course before the start of the school year.

College Entrance Recommendations and Requirements

MNVA graduates may choose to continue their education at a two-year or four-year college or university. Because college enrollments continue to increase, the admission requirements have also gone up.

Most four-year state colleges and universities now have the following minimum entrance requirements:

- 4 years of English (including composition and literature)
- 3 years of math (2 years of algebra and 1 year of geometry) (4 years recommended)
- 3 years of science (1 yr. each of a physical and a biological science and 1 yr. w/significant laboratory experience) (4 years recommended)
- 3 years of social studies (including 1 year each of US history and geography)
- 2 years of a single world language (including non-English Languages and ASL)
- 1 year of visual and performing arts

In addition to meeting the above minimum requirements, students planning to attend a four-year college must take either the ACT or SAT college entrance examination. Also, most four-year colleges require a minimum high school class rank in the top 50%. Some have much stricter entrance requirements.

Most two-year colleges have the following recommendations for entrance requirements:

- Students must have a high school diploma or GED.
- Students will be required to take a test for placement in reading, writing and mathematics skills by the community or technical college. The most common placement exam is the Accuplacer. In general, the SAT and ACT are not part of the admission requirements but may be for specific programs such as Nursing.
- Students are more likely to do well on the placement test if they completed a “college prep” curriculum in high school. Developmental or remedial courses (non-degree credit) may be required if students have not met minimum competencies evaluated by each school’s placement test.

In conclusion, if you are college bound, do the best you can to make wise class choices now which will fulfill all entrance requirements at the college of your choice. See your counselor or call your college if you have questions.

Post-Secondary Enrollment Options (PSEO)

The PSEO program allows 10th, 11th, and 12th grade students to earn college credit while still in high school. Students may take PSEO courses on a full or part-time basis. The PSEO program provides students with a greater variety of class offerings as well as the opportunity to pursue more challenging coursework than may be available at the high school. The tuition, fees and required textbooks are at no cost to students.

Most PSEO courses are only open to high school students during their 11th and 12th grade years. 10th graders who are eligible may take career and technical (CTE) courses. Please contact your counselor to see if you are eligible and to obtain the PSEO enrollment forms.

Steps to sign up for PSEO:

1. Read the Post-Secondary Enrollment Options Program Student Eligibility form to determine if you qualify. In general, a junior must have a 3.5 GPA and ranked in the top third of his/her class and a senior must have a 3.0 GPA and ranked in the top half of his/her class.
2. Choose a post-secondary institution that you would like to attend, and find the application needed.
3. Print off the Postsecondary Enrollment Options Program Notice of Student Registration (NOSR) form and fill out Section 1 of the form.
4. Fill out and print the MNVA PSEO Contract.
5. You and your parent must sign and date both forms indicating that you agree with the terms of the program.
6. E-mail or fax both forms, including any additional items from the institution’s own application to your school counselor.
7. Your counselor will discuss high school course requirements with you, fill out Section 2 of the NOSR, and will return any other materials to the student so they can submit paperwork to the college/university they are interested in attending.
8. We must receive a copy of your official registration and a copy of your grades/transcript at the end of the semester in order for you to receive credit for your classes.
9. The PSEO forms need to be completed each semester you participate in PSEO.

Deadlines for PSEO:

Registration for **Fall Semester PSEO** classes should be completed the spring before a student wishes to start courses, forms must be turned in by **May 30th**.

Registration for **Spring Semester PSEO** classes should be completed the fall before a student wishes to start courses, forms must be turned in by **November 1st**.

****These are MNVA deadlines, be aware that each college/university has its own deadlines and process***

NCAA Eligibility Requirements

If you wish to play sports in college, you need to meet the NCAA requirements and register on their website. Application for eligibility is made during the junior year of high school. A grade point average of 2.00 in a “Core Curriculum” is a requirement for application.

MNVA Honors level or AP courses are the only classes eligible for consideration by NCAA. These MNVA courses are considered under extended review by the NCAA Eligibility Committee. MNVA honors or AP level courses pending individual review will require the submission of student-specific documents to determine whether the course may be used in the NCAA initial-eligibility certification process. Unless otherwise noted in this account’s Additional Information, the high school is required to provide: (a) the teacher’s record of grades (e.g. grade book) specifying each item listed in the grade book and the date and grade earned for all recorded items and (b) a complete copy of the student’s work for all items listed in the grade book, included his or her name and date on each document. Ungraded student work (e.g. class notes, ungraded activities) will not be considered in the review. Your guidance counselor will be happy to assist you in this process. Please work directly with your counselor to put together the requested materials. Your counselor will send the information to NCAA on your behalf.

Additional information can be found on the NCAA website: <http://www.ncaa.org/student-athletes/future>

Career and College Prep Program

The Career & College Program is part of the overall program for high school students at MNVA, supporting students around career and college readiness. The focus of the Career & College Program is to support all students as they plan for life after high school. It isn’t something separate from the regular school day, rather it is part of how students do school.

With the Career & College Program, students have access to additional staff, resources and classes that will prepare them for their individual plans following high school. Part of that includes looking at a student’s career interest and identifying a career pathway to focus on. Realistically, some students know exactly what they want to do after graduation and others do not. High school is a great time to explore this and prepare for life after graduation. Some students are planning on going directly to college while others are planning to go straight on to work. There is no one right way to do it and Career & College Program staff are here to walk alongside students to support them as they lay out their individual plans to meet their goals following high school. As students work to earn core credits, plan out what electives they want to take or focus in on a specific Career Pathway to gain industry certifications, the Career & College Program will give students the support needed to make this happen.

Choosing to participate in the Career & College Program doesn’t have to take away from a student’s high school experience, rather it is designed to enhance their high school experience and give students a step up in their preparation for whatever plans they have after graduation. Specifically, students supported through the Career & College Program have access to the following additional resources:

TALLO

Tallo is a web-based networking platform that's changing the way students connect with employers and colleges across the country. Tallo lets students showcase their skills and get discovered by colleges and companies. Students will establish their own profile in Tallo that they will share with colleges or companies of their choice, to further their skill development or studies. A unique feature of Tallo is that it is a platform that requires colleges and companies to be vetted prior to being able to interface with students and they must adhere to specific guidelines that will protect student information. Students also have access to scholarships directly through the Tallo platform.

Pathful

Pathful connects educators and learners with a network of industry professionals, virtually bringing real-world relevance and career exposure to all students. Students will be able to participate in live discussions with professionals in a variety of career fields to learn more about those specific career areas. Pathful allows students, no matter their geographic location, access to real information about careers of interest to them so that they are better informed about roles and responsibilities in that career field.

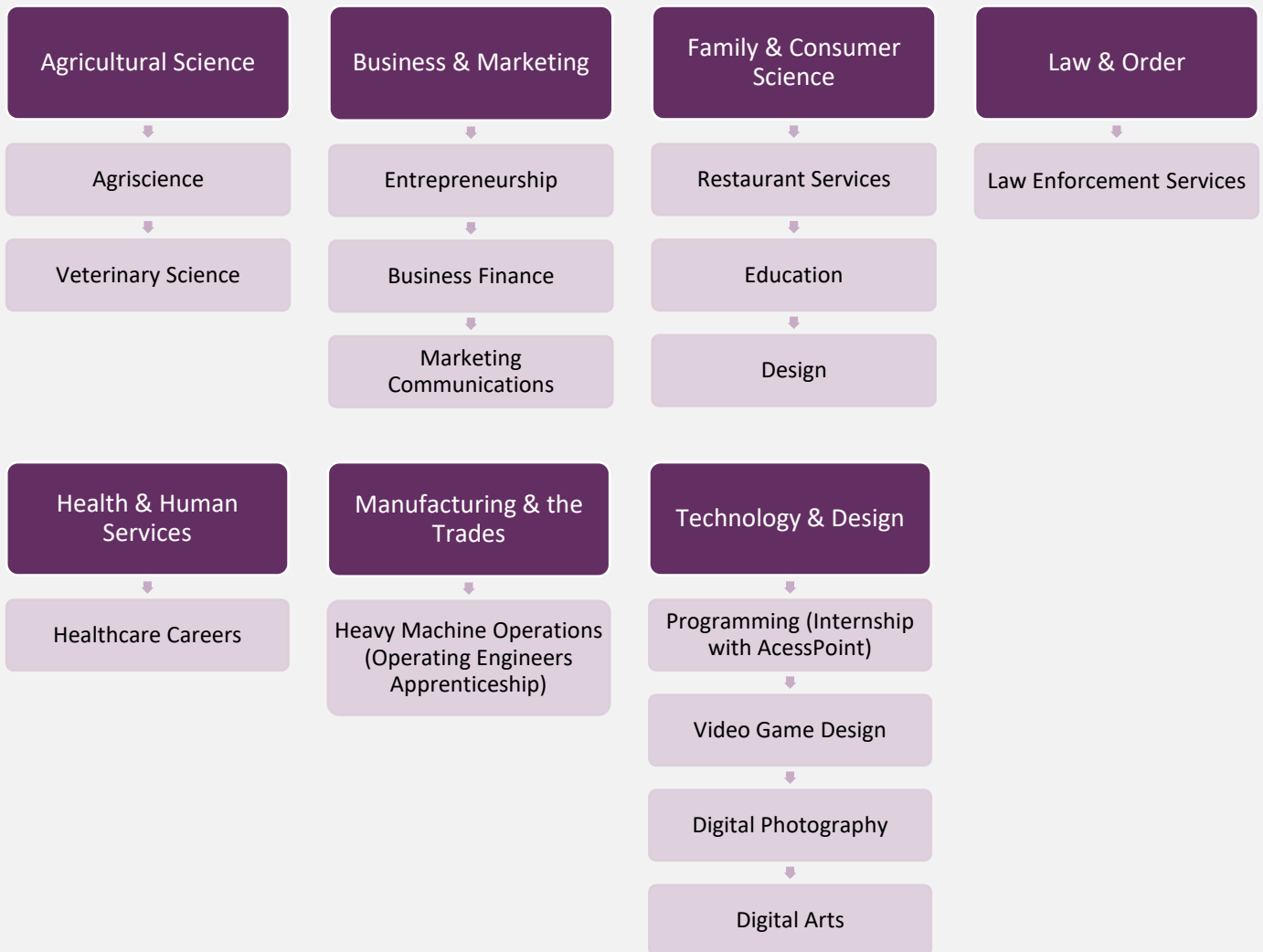
SkillsUSA

SkillsUSA is a Career & Technical Student Organization that helps students develop life-long skills such as leadership development, fostering interpersonal relationships, working in a team environment, and setting and achieving goals. Students who participate in SkillsUSA will have opportunities to attend leadership events, complete in career related competitions and develop skills outside the classroom that will support them beyond graduation.

Approved Pathways

Currently MNVA has an array of approved Career Pathways: Agriculture, Business, Education, Health & Human Services, Hospitality & Tourism, Information Technology, Law & Security, Manufacturing & The Trades, Marketing, and Visual Arts. The chart on the following page lays out each of the approved pathways and career fields associated with that pathway. For more information regarding course progression in each pathway, please see the course suggestions and sample learning plans at the end of this guide. Keep in mind, these are intended to be a reference for students as they plan for course registration and core courses may differ due to prior course experience. It is important to note that not all classes are offered each semester/year. If you have questions about courses offered, please reach out to the Career & College Program staff for more information.

CURRENT CAREER & COLLEGE PREP PATHWAYS



For questions regarding the Career Prep Program, please reach out via email at careerprep@mnva.org.

MNVA Graduation Requirements

Students must earn 45 academic credits to meet MNVA’s Graduation Requirements. A semester course is equivalent to 1 academic credit. (semester course = 1 credit/year-long course = 2 credits)

Parents and students need to consider the planning information on the next few pages carefully. If you have any questions, please contact your school counselor.

| | |
|---|-------------------|
| ENGLISH | 8 credits |
| English 9 A & B..... | 2 credits |
| English 10 A & B..... | 2 credits |
| American Literature A & B..... | 2 credits |
| British & World Literature A & B..... | 2 credits |
| SOCIAL STUDIES | 7 credits |
| Geography..... | 1 credit |
| World History A & B..... | 2 credits |
| US History A & B..... | 2 credits |
| Government..... | 1 credit |
| Economics..... | 1 credit |
| MATH | 6 credits |
| Geometry A & B..... | 2 credits |
| Algebra IIA & B..... | 2 credits |
| Additional Math Course..... | 2 credits |
| <i>*Remaining two credits can be fulfilled by MTH207: Continuing Algebra A & B, MTH307: Practical Math A & B, MTH403: Pre-Calculus/Trigonometry A & B; MTH433: Calculus A & B</i> | |
| <i>*See math section for additional information.</i> | |
| SCIENCE | 6 credits |
| Earth Science A & B..... | 2 credits |
| Biology A & B..... | 2 credits |
| Chemistry A & B..... | 2 credits |
| PHYSICAL EDUCATION/HEALTH | 2 credits |
| Physical Education..... | 1 credit |
| Skills for Health..... | 1 credit |
| FINE ARTS | 2 credits |
| <i>MNVA courses that qualify for fine art credit: ART010: Fine Art A & B; ART020: Music Appreciation A & B; Band A & B; Choir A & B; Drawing I & II; Music Lab; Painting I & II; TCH028: Digital Arts I; TCH029: Digital Arts II; TCH031: Digital Photography I; TCH032: Digital Photography II; TCH035: Image Design & Editing; TCH175: Digital Media Photoshop; TCH174: Digital Media Illustrator</i> | |
| ELECTIVES | 14 credits |
| Total Credits Required | 45 credits |

Typical Course Schedule

The following is a typical course schedule for grades 9-12. When considering courses, students and their parents should give special consideration to the level of course chosen; core, honors or AP. Students should also register for classes that provide opportunity for further skill development in areas of concern. **Please note, in order to take an AP or honors course, students must have approval from their counselor and/or teacher. To continue in an honors course, a student must maintain a minimum C average in that course.**

| FRESHMAN YEAR | |
|---|--|
| English: English 9A | English: English 9B |
| Social: Geography & World Cultures /Elective | Social: Elective/Geography & World Cultures |
| Science: Earth Science A | Science: Earth Science B |
| Math: Geometry A | Math: Geometry B |
| Physical Education I/Health | Health/Physical Education I |
| World Language/Elective | World Language/Elective |

| SOPHMORE YEAR | |
|---|---|
| English: English 10A | English: English 10B |
| Social: World History A | Social: World History B |
| Science: Biology A | Science: Biology B |
| Math: <i>*See math section for pathway information to aide in course selection</i> | Math: <i>*See math section for pathway information to aide in course selection</i> |
| Fine Art Elective | Fine Art Elective |
| World Language/Elective | World Language/Elective |

| JUNIOR YEAR | |
|---|---|
| English: American Literature A | English: American Literature B |
| Social: US History A | Social: US History B |
| Science: Chemistry A | Science: Chemistry B |
| Math: <i>*See math section for pathway information to aide in course selection</i> | Math: <i>*See math section for pathway information to aide in course selection</i> |
| Physical Education II/Elective | Elective/Physical Education II |
| Elective | Elective |

| SENIOR YEAR | |
|---|---|
| English: British & World Literature A | English: British & World Literature B |
| Social: US Government & Politics /US & Global Economics | Social: US & Global Economics/ US Government & Politics |
| Science: Physics A OR Physical Science A OR Elective | Science: Physics B OR Physical Science A OR Elective |
| Math: <i>*See math section for pathway information to aide in course selection</i> | Math: <i>*See math section for pathway information to aide in course selection</i> |
| Elective | Elective |
| Elective | Elective |

The courses listed here represent a typical course schedule for a MNVA student. There are alternate courses available for students needing remediation in subjects; honors level courses or different courses due to prior course experience. Please review the course descriptions later in this document for details about each course listed and the elective options.

List of All Courses Offered By Department

* See course description information for specific details about each course including pre-requisites

AGRICULTURAL SCIENCE

AGR020 Intro to Forestry & Natural Resources
AGR040 Intro to Energy & Natural Resources Tech
AGR105 Agriscience 1
AGR111 Agriscience 2
OTH033 Veterinary Science
Small Animal Care & Management

ART & MUSIC

ART010 Fine Art A & B
ART020 Music Appreciation A & B
Band A & B
Choir A & B
Drawing I
Drawing II
Music Lab
Painting I
Painting II

BUSINESS & MARKETING

BUS045-PBL Entrepreneurship 1
BUS055-PBL Entrepreneurship 2
BUS065-PBL Marketing 1
BUS075-PBL Marketing 2
BUS090 Sports & Entertainment Marketing 1
BUS091 Sports & Entertainment Marketing 2
BUS110 Social Media Marketing
BUS113: General Accounting 1
BUS114: General Accounting 2
HST350 Foundations of Financial Literacy
TCH172 Software Apps Word
TCH177 Software Apps Excel

ENGLISH

ENG001 English Foundations IA & B
ENG011 English Foundation IIA & B
ENG108 English 9A & B
ENG109 Honors English 9A & B
ENG208 English 10A & B
ENG209 Honors English 10A & B
ENG303 American Literature A & B
ENG304 Honors American Literature A & B
ENG403 British & World Literature A & B
ENG404 Honors British & World Literature A & B
COM230 Intro to Journalism 1
ENG020 Public Speaking
ENG030 Creative Writing A & B

FAMILY & CONSUMER SCIENCE

BUS120 Hospitality & Tourism
OTH080 Nutrition & Wellness
OTH161 Early Childhood Education 1
OTH162 Early Childhood Education 2
OTH171 Culinary Arts 1
OTH172 Culinary Arts 2
OTH181 Fashion Design
OTH182 Interior Design
OTH200 Intro to Education

GENERAL ELECTIVES

CAR100 Career Planning
OTH090 Life Skills
English Lab A & B
Math Lab A & B
Reading Strategies

HEALTH & HUMAN SERVICES

CAR019 Healthcare Explorations
Emergency Medical Responder
HLT213 Introduction to Medical Terminology I
HLT214 Introduction to Medical Terminology II
SCI330A Anatomy & Physiology A
SCI330B Anatomy & Physiology B

LAW & ORDER

LAW110-PBL Careers in Criminal Justice 1
LAW111-PBL Careers in Criminal Justice 2
OTH039-PBL Criminology
SCIO30 Forensic Science

MANUFACTURING & THE TRADES

CAR022 Construction Explorations
MFG010 Basic Grade & Construction Math
MFG201 Basic Construction Equipment Fundament
MFG202 Basic Maintenance of Mobile Equipment

MATHEMATICS

MTH001 Math Foundations IA & B
MTH011 Math Foundations IIA & B
MTH113 Pre-Algebra A & B
MTH207 Continuing Algebra A & B
MTH208 Geometry A & B
MTH209 Honors Geometry A & B
MTH307 Practical Math A & B
MTH308 Algebra IIA & B
MTH309 Honors Algebra IIA & B
MTH310 CIS Algebra IIA & B
MTH322 Consumer Math A & B
MTH403 Pre-Calculus & Trigonometry A & B
MTH433 Calculus A & B

PHYSICAL EDUCATION & HEALTH

Athletic Officiating
OTH010 Skills for Health
OTH020A Physical Education I
OTH020B Physical Education II

SCIENCE

SCI102A Physical Science A
SCI113 Earth Science A & B
SCI203 Biology A & B
SCI204 Honors Biology A & B
SCI303 Chemistry A & B
SCI304 Honors Chemistry A & B
SCI403 Physics A & B
Aerospace Education
SCIO10 Environmental Science
SCIO20 Astronomy 1
SCIO21 Astronomy 2

SOCIAL STUDIES

HST103 World History A & B
HST104 Honors World History A & B
HST213A Geography A
HST303 US History A & B
HST304 Honors US History A & B
HST403 US Government & Politics
HST413 US & Global Economics
HST020 Psychology
HST060-PBL Sociology
OTH031 Archaeology

TECHNOLOGY & DESIGN

TCH028 Digital Arts I
TCH029 Digital Arts II
TCH031 Digital Photography I
TCH032 Digital Photography II
TCH073 Video Game Design 1 A & B
TCH08A Coding Fundamentals
TCH102 Exploration of AI
TCH174 Digital Media Illustrator
TCH175 Digital Media Photoshop
TCH220-PBL Computer Science Principles
TCH342 Python Programming A & B

WORLD LANGUAGE

French IA & B
French IIA & B
French IIIA & B
AP French Language A & B
CIS German IA & B
CIS German IIA & B
German IA & B
German IIA & B
WLG100 Spanish IA & B
WLG200 Spanish IIA & B
WLG300 Spanish IIIA & B
WLG500 AP Spanish Language A & B

CREDIT RECOVERY

ENG106 English 9A & B CR
ENG206 English 10A & B CR
ENG306 American Literature A & B CR
ENG406 British & World Literature A & B CR
HST106 World History A & B CR
HST216 Geography CR
HST306 US History A & B CR
HST406 US Government & Politics CR
HST416 US & Global Economics CR
MTH206 Geometry A & B CR
MTH306 Algebra IIA & B CR
OTH016 Health CR
OTH022 Physical Fitness CR
SCI116 Earth Science A & B CR
SCI206 Biology A & B CR
SCI306 Chemistry A & B CR

COURSE DESCRIPTIONS 2024-2025



FINE ART COURSES



HONORS COURSES



AP COURSES

Agricultural Science

AGR020: INTRO TO FORESTRY & NATURAL RESOURCES

Grade Level: 9, 10, 11, 12

Course Length: One Semester

Forests and other natural resources play an important role in our world, from providing lumber and paper products to providing habitat for birds and animals. In the Introduction to Forestry and Natural Resources courses, you'll learn more about forest ecology, management, and conservation. You'll explore topics such as environmental policy, land use, water resources and wildlife management. Finally, you'll learn more about forestry related careers and important issues facing forestry professionals today.

AGR040: INTRO TO ENERGY & NATURAL RESOURCES TECH

Grade Level: 9, 10, 11, 12

Course Length: One Semester

The Energy & Natural Resource Technology course examines the interrelatedness of environmental issues and production agriculture. Students will evaluate the environmental benefits provided by sustainable resources and green technologies. Instruction is designed to allow for the application of science and technology to measure environmental impacts resulting from production agriculture through field and laboratory experiences.

AGR105: AGRISCIENCE 1

Grade Level: 9, 10, 11, 12

Course Length: One Semester

The word "agriculture" often evokes images of farms, fields, and livestock, and while all of these representations are correct and essential, the field of Agriculture is so much more! In Agriscience I: Introduction, you'll explore how agriscientists play key roles in improving agriculture, food production, and the conservation of natural resources along with the technologies used to keep the field thriving. Are you ready to explore the diverse careers in agriscience and how you can prepare to positively impact the planet? Let's get growing!

AGR111: AGRISCIENCE 2

Grade Level: 9, 10, 11, 12

Course Length: One Semester

Science and technology are revolutionizing many areas of our lives, and agriculture is no exception! From aquaculture to genetic engineering, agriscience is finding new ways to better produce and manage plants, from the field to the garden. In this course, you'll build on your existing knowledge of plant science and delve deeper into important areas such as soil science and weed management. You'll learn more about horticulture and plant science trends from creating hybrid species to growing edible plants in unlikely places.

OTH033: VETERINARY SCIENCE

Grade Level: 9, 10, 11, 12

Course Length: One Semester

As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well-being. Looking at the pets that live in our homes, on our farms, in zoos and wildlife sanctuaries, this course examines some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases affect not only the animals around us, but at times, us humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues are studied and applied.

SMALL ANIMAL CARE & MANAGEMENT

Grade Level: 9, 10, 11, 12

Course Length: One Semester

Students will discover the amazing world of animals. The focus will be placed on companion animals, specifically dogs, cats and rabbits. Students will participate in a variety of projects and learning activities that will increase knowledge about species, breeds, anatomy, care and management of these animals. Students will become familiar with careers in the small animal industry.

Art & Music

ART010: FINE ART A & B

Fine Art Elective Credit

Grade Level: 9, 10, 11, 12

Course Length: Two semesters

Materials: One package of white clay; one set of acrylic paint; one set of round paintbrushes. It is recommended, but not required, that students have some means of capturing an image of their studio art projects with a digital camera, webcam, or other imaging device.

This course combines art history, appreciation, and analysis, while engaging students in hands-on creative projects. Lessons introduce major periods and movements in art history while focusing on masterworks and the intellectual, technical, and creative processes behind those works. Studio lessons provide opportunities for drawing, painting, sculpting, and other creative endeavors.



ART020: MUSIC APPRECIATION A & B

Fine Art Elective Credit

Grade Level: 9, 10, 11, 12

Course Length: Two semesters

This course introduces students to the history and genres of music. The first semester covers early musical forms, classical music, patriotic and nationalistic music, and twentieth-century music. The second semester presents modern traditions, including American jazz, gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip hop.



BAND A & B

Fine Art Elective Credit

Grade Level: 9, 10, 11, 12

Course Length: One Semester

Experience the joy of music from the comfort of your home with our virtual band class! Join us to explore the world of instrumental music, develop your musical skills, and collaborate with fellow musicians in a supportive online environment. Whether you're a beginner or an experienced player, our expert instructors will guide you through techniques, repertoire, and performance opportunities tailored to your level. Discover the power of music and unleash your creativity in our virtual band class.



CHOIR A & B

Fine Art Elective Credit

Grade Level: 9, 10, 11, 12

Course Length: One Semester

Discover the beauty of harmonies and melodies in our virtual choir class! Join us for an immersive musical journey where you'll explore vocal techniques, repertoire, and ensemble performance, all from the comfort of your home. Whether you're a seasoned singer or new to the art, our experienced instructor will help you hone your vocal skills, express yourself through music, and connect with fellow singers in a supportive online community. Unleash your voice and join us in creating captivating choral music together.



DRAWING I

Fine Art Elective Credit

Grade Level: 9, 10, 11, 12

Course Length: One Semester

Materials: Students will need to provide their own sketchbook; 2B and 6B pencils; kneaded eraser; fine point Sharpie marker

In this course, students will develop drawing skills through studies in value, contour line drawing, perspective, figure drawing, and the elements and principles of art. Designed for the beginner and intermediate student, each project will allow for individualization that caters to each student's skill level and interests by offering creative exploration. Final projects will build towards a portfolio that may be used to apply for college.



DRAWING II

Fine Art Elective Credit

Grade Level: 9, 10, 11, 12

Course Length: One Semester

Materials: Students will need to provide their own sketchbook; 2B and 6B pencils; kneaded eraser; fine point Sharpie marker

Prerequisites: Drawing I is strongly suggested, but not required

In this course, students will continue to develop drawing skills through studies in value, contour line drawing, perspective, and figure drawing and principles of art. Designed for intermediate students, each project will allow for individualization that caters to each student's skill level and interests by offering creative exploration. Final projects will build towards a portfolio that may be used to apply for college.



MUSIC LAB

Fine Art Elective Credit

Grade Level: 9, 10, 11, 12

Course Length: One Semester



This course covers the major skills required to start composing music, including melody, harmony, rhythms, form, ornamentation, and accompaniment. Topics covered will include music mixing, audio production, song writing, lyric writing, sound design, and electronic music. Students will compose music using either Finale NotePad, BandLab, GarageBand, or other music technology resources.

PAINTING I

Fine Art Elective Credit

Grade Level: 9, 10, 11, 12

Course Length: One Semester

Materials: Students will need to provide their own set up brushes (multiple sizes); acrylic paint set; paper canvas (9x12); sketchbook or plain, white computer paper; pencil and eraser; jar (to rinse brushes); palette for mixing paint (non-absorbing plastic or waxed paper) Optional: canvas panels; stretched and primed canvases; easel. All supplies may be sourced from home, local art supply store or online.

In this course, students will develop painting skills through studies in color theory, the elements and principles of art, blending and painting techniques, perspective, figure, and abstract studies. Designed for beginning and intermediate students, each project will allow for individualization that caters to each student's skill level and interests by offering creative exploration. Final projects will build towards a portfolio that may be used to apply for college.



PAINTING II

Fine Art Elective Credit

Grade Level: 9, 10, 11, 12

Course Length: One Semester

Materials: Students will need to provide their own set up brushes (multiple sizes); acrylic paint set; paper canvas (9x12); sketchbook or plain, white computer paper; pencil and eraser; jar (to rinse brushes); palette for mixing paint (non-absorbing plastic or waxed paper) Optional: canvas panels; stretched and primed canvases; easel. All supplies may be sourced from home, local art supply store or online.

Prerequisites: Painting I is strongly suggested, but not required

In this course, students will develop painting skills through studies in color theory, the elements and principles of art, blending and painting techniques, perspective, figure, and abstract studies. Designed for beginning and intermediate students, each project will allow for individualization that caters to each student's skill level and interests by offering creative exploration. Final projects will build towards a portfolio that may be used to apply for college.



2018-2019 – PAINTING I



Alyssa Paxton



McKenna Eaton



Lanie Evans

Business & Marketing

BUS045-PBL: ENTREPRENEURSHIP 1

Grade Level: 9, 10, 11, 12

Course Length: One Semester

This course is a Project Based Learning course (PBL). In this introductory business course, students learn the basics of planning and launching their own successful business. Whether they want to start their own money-making business or create a non-profit to help others, this course helps students develop the core skills they need to be successful. They learn how to develop new business ideas, attract investors, market their business, and manage expenses.

BUS055-PBL: ENTREPRENEURSHIP 2

Grade Level: 9, 10, 11, 12

Course Length: One Semester

Prerequisites: BUS045-PBL: Entrepreneurship 1

This course is a Project Based Learning course (PBL). Students build on the business concepts they learned in Entrepreneurship 1. Students continue to explore the different functions of business, while refining their technology and communication skills in speaking, writing, networking, negotiating, and listening. The purpose of this course is to prepare students to launch a small business venture.

BUS065-PBL: MARKETING 1

Grade Level: 9, 10, 11, 12

Course Length: One Semester

Students find out what it takes to market a product or service in today's fast-paced business environment. They learn the fundamentals of marketing using real-world business examples. They learn about buyer behavior, marketing research principles, demand analysis, distribution, financing, pricing, and product management.

BUS075-PBL: MARKETING 2

Grade Level: 9, 10, 11, 12

Course Length: One Semester

Prerequisites: BUS065-PBL: Marketing 1

Students build on the skills and concepts learned in Marketing 1 to develop a basic understanding of marketing principles and techniques. The course encourages students to think like an entrepreneur and begin preparing for a career in business and marketing. By the end of the course, students will understand what it takes to start a small business venture.

BUS090: SPORTS & ENTERTAINMENT MARKETING 1

Grade Level: 9, 10, 11, 12

Course Length: Two Semesters

The bright lights. The roaring crowds. The chants and cheers and applause. If you are drawn to the electricity of large events and the challenge of making events successful, a career in sports and entertainment marketing may be for you! In this course, you will trace the development of these industries, dissect their dual nature, and discover what it takes to pitch promote, and deliver on these services. You'll also explore the necessary steps to chart your own career path from among the professional roles that these industries need to operate. Let's get off the sidelines and hop into the primetime of the sporting and entertainment worlds!

BUS091: SPORTS & ENTERTAINMENT MARKETING 2

Grade Level: 9, 10, 11, 12

Course Length: One Semester

Prerequisites: BUS090: Sports and Entertainment Marketing 1

You've learned what it looks like to work one-on-one with clients as a sports medicine professional, and now it's time to focus on the group. In this course, you will be introduced to teaching group exercise classes and providing rehabilitation services to clients facing injury and disease. You will also learn about laws that govern the work of sports medicine professionals, business concerns like insurance and staffing, and what you need to consider if you start your own fitness facility.

BUS110: SOCIAL MEDIA MARKETING

Grade Level: 9, 10, 11, 12

Course Length: One Semester

Whether it's posting pictures, videos, or interacting in the metaverse, today's students who aspire to apply their social media skills to business marketing must be prepared! This course on Social Media Business Marketing provides them with the foundational knowledge of social media technology and marketing principles. The course begins with an introduction to Social Media platforms and then goes in-depth into the marketing and advertising strategies used to support a company's social media strategy and campaigns. Through activities and projects, students will gain firsthand knowledge of this exciting field. This course also prepares students for the Social Media Strategist certification.

BUS113: GENERAL ACCOUNTING 1

Grade Level: 9, 10, 11, 12

Course Length: One Semester

This is the first semester of a two-semester course. The course teaches accounting while placing emphasis on conceptual understanding and financial statement analysis to encourage students to apply accounting concepts to real-world situations and make informed business decisions. Topics include transactions and methods of accounting for both service and merchandising businesses.

BUS114: GENERAL ACCOUNTING 2

Grade Level: 9, 10, 11, 12

Course Length: One Semester

Prerequisites: BUS113: General Accounting 1

This is the second semester of a two-semester course. The course continues to teach accounting while placing emphasis on conceptual understanding and financial statement analysis to encourage students to apply accounting concepts to real-world situations and make informed business decisions. Topics include transactions and methods of accounting for both service and merchandising businesses.

HST350: FOUNDATIONS OF FINANCIAL LITERACY

Grade Level: 10, 11, 12

Course Length: One Semester

In this course, students will explore their choices as producers, consumers, investors, and taxpayers. In addition, they will learn financial literacy skills emphasizing investments, markets, and taxation. Students will apply what they learn to real-world simulation problems. Topics of study include markets from historical and contemporary perspectives; supply and demand; budgeting; understanding creditworthiness and credit reports; saving options; debt reduction; theories of early economic philosophers such as Adam Smith and David Ricardo; theories of value; money (what it is, how it evolved, and the role of banks, investment houses, and the Federal Reserve); Keynesian economics; how capitalism functions, focusing on productivity, wages, investment, and growth; issues of capitalism, such as unemployment, inflation, and the national debt; profiles of individuals who are making their mark in business and economics; and a survey of markets in such areas as China, Europe, and the Middle East.

TCH172: SOFTWARE APPS WORD

Grade Level: 9, 10, 11, 12

Course Length: One Semester

This course introduces students to Microsoft Word. Students will gain insights into the features and capabilities of this essential software within personal, educational, and business settings. Over 11 modules, students' progress from absolute basics like navigation to performing complex tasks like graphic elements and collaboration. This course prepares students for the Microsoft Office Associate Microsoft Word Certification.

TCH177: SOFTWARE APPS EXCEL

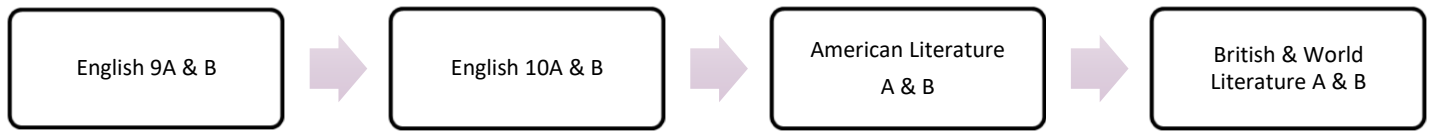
Grade Level: 9, 10, 11, 12

Course Length: One Semester

This course introduces students to the world of Microsoft Excel. Students will get an insight into the use of the product within the business setting. Over 8 modules, students will learn everything from absolute basics like navigating Microsoft Excel to performing complex tasks like formulas and functions. This course prepares students for the Microsoft Office Associate: Microsoft Excel Certification.

English

English Typical Course Progression:



The courses listed in this pathway are typical for a MNVA student however, placement in core courses will be based on prior course completion. Honors courses may be available to students that are interested, please remember, to continue in an AP or honors level course, a student must maintain a minimum C average in that course.

ENG001: ENGLISH FOUNDATIONS IA & B

***Students should not sign up for this course, it is assigned with administrative approval.**

Grade Level: 9, 10, 11, 12

Course Length: Two semesters

Prerequisites: Teacher/school counselor recommendation

Students build and reinforce foundational reading, writing, and basic academic skills needed for success in high school. Through carefully paced, guided instruction, and graduated reading levels, students improve reading comprehension and strategies, focusing on literacy development at the critical stage between decoding and making meaning from text. Instruction and practice in writing skills help students develop their composition skills in a variety of formats. If needed, students can continue their remediation of reading and writing skills with English Foundations II.

ENG011: ENGLISH FOUNDATIONS IIA & B

***Students should not sign up for this course, it is assigned with administrative approval.**

Grade Level: 9, 10, 11, 12

Course Length: Two semesters

Prerequisites: Teacher/school counselor recommendation; ENG001: English Foundations I is not required

Students build and reinforce foundational reading, writing, and basic academic skills needed for success in high school. Struggling readers develop mastery in reading comprehension, vocabulary building, study skills, and media literacy. Students build confidence in writing fundamentals by focusing on composition in a variety of formats, grammar, style, and media literacy.

ENG108: ENGLISH 9A & B

Grade Level: 9

Course Length: Two semesters

Materials: Explorations in Literature; A Midsummer Night's Dream by William Shakespeare; The Alchemist by Paulo Coelho; The Way to Rainy Mountain by N. Scott Momaday

English 9 includes engaging and interactive instruction about reading, writing, speaking and listening, and language, with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to Grade 9. Throughout the course, students practice narrative, informative, and argument writing. Students also develop and deliver presentations and participate in discussions with their peers.

ENG109: HONORS ENGLISH 9A & B

Grade Level: 9

Course Length: Two semesters

Materials: Explorations in Literature; A Midsummer Night's Dream by William Shakespeare; The Alchemist by Paulo Coelho; The Way to Rainy Mountain by N. Scott Momaday; Animal Farm by George Orwell

Prerequisites: Teacher/school counselor recommendation

Honors English 9 includes engaging and interactive instruction about reading, writing, speaking and listening, and language, with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to Grade 9. Throughout the course, students practice narrative, informative, and argument writing. Students also develop and deliver presentations and participate in discussions with their peers. This course includes all the topics in English 9, as well as an independent honors project in each semester.



ENG208: ENGLISH 10A & B

Grade Level: 10

Course Length: Two semesters

Materials: Explorations in Literature; Cry, the Beloved Country by Alan Paton; MacBeth by William Shakespeare; Night by Elie Wiesel

Prerequisites: ENG108 English 9 (or equivalent)

English 10 includes engaging and interactive instruction about reading, writing, speaking and listening, and language, with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to Grade 10. Throughout the course, students practice narrative, informative, and argument writing. Students also develop and deliver presentations and participate in discussions with their peers.

ENG209: HONORS ENGLISH 10A & B

Grade Level: 10

Course Length: Two semesters

Materials: Explorations in Literature; Cry, the Beloved Country by Alan Paton; MacBeth by William Shakespeare; Night by Elie Wiesel; Frankenstein by Mary Shelley

Prerequisites: ENG108 English 9 (or equivalent) and teacher/school counselor recommendation

Honors English 10 includes engaging and interactive instruction about reading, writing, speaking and listening, and language, with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to Grade 10. Throughout the course, students practice narrative, informative, and argument writing. Students also develop and deliver presentations and participate in discussions with their peers. This course includes all the topics in English 10, as well as an independent honors project in each semester.

ENG303: AMERICAN LITERATURE A & B

Grade Level: 11

Length: Two semesters

Materials: Journeys in Literature: American Traditions, Volume C; The Great Gatsby by F. Scott Fitzgerald; The Glass Menagerie by Tennessee Williams.

Students will also read one selection of their choice from the following (not supplied): The Old Man and the Sea by Ernest Hemingway; The House on Mango Street by Sandra Cisneros; A Lesson Before Dying by Ernest Gaines; The Red Badge of Courage by Stephen Crane

Prerequisites: ENG208 English 10 (or equivalent)

In this course, students read and analyze works of American Literature from colonial to contemporary times, including poetry, short stories, novels, drama, and nonfiction. The literary works provide opportunities for critical writing, creative projects, and online discussions. Students develop vocabulary skills and refresh their knowledge of grammar, usage and mechanics.

ENG304: HONORS AMERICAN LITERATURE A & B

Grade Level: 11

Course Length: Two semesters

Materials: Journeys in Literature: American Traditions, Volume C; The Great Gatsby by F. Scott Fitzgerald; The Glass Menagerie by Tennessee Williams.

Students will also read one selection of their choice from the following (not supplied): The Old Man and the Sea by Ernest Hemingway; The House on Mango Street by Sandra Cisneros; A Lesson Before Dying by Ernest Gaines; The Red Badge of Courage by Stephen Crane; and two selections of their choice from the following: Billy Budd by Herman Melville; A Connecticut Yankee in King Arthur's Court by Mark Twain; Catcher in the Rye by J.D. Salinger; Song of Solomon by Toni Morrison

Prerequisites: ENG208 English 10 (or equivalent) and teacher/school counselor recommendation

In this course, students read and analyze works of American literature from colonial to contemporary times, including poetry, short stories, novels, drama, and nonfiction. The literary works provide opportunities for critical writing, creative projects, and online discussions. Students develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests. Students enrolled in this challenging course will also complete independent projects that deepen their understanding of the themes and ideas presented in the curriculum.

ENG403: BRITISH & WORLD LITERATURE A & B

Grade Level: 12

Course Length: Two semesters

Materials: Journeys in Literature: British and World Classics; Hamlet by William Shakespeare. Students will also read two of the following: Pride and Prejudice by Jane Austen; Hard Times by Charles Dickens; 1984 by George Orwell; Nectar in a Sieve by Kamala Markandaya; Siddhartha by Herman Hesse

Prerequisites: ENG303 American Literature (or equivalent)

Students read selections from British and world literature in a loosely organized chronological framework. They analyze the themes, styles, and structures of these texts and make thematic connections among diverse authors, periods, and setting. Students complete guided and independent writing assignments that refine their analytical skills. They have opportunities for creative expression in projects of their choice. Students also practice test-taking skills for standardized assessments in critical reading and writing.

ENG404: HONORS BRITISH & WORLD LITERATURE A & B



Grade Level: 12

Course Length: Two semesters

Materials: Journeys in Literature: British and World Classics; Hamlet by William Shakespeare. Students will also read two of the following: Pride and Prejudice by Jane Austen; Hard Times by Charles Dickens; 1984 by George Orwell; Nectar in a Sieve by Kamala Markandaya; Siddhartha by Herman Hesse

Prerequisites: ENG303 American Literature (or equivalent) and teacher/school counselor recommendation

Students read selections from British and world literature in a loosely organized chronological framework. They analyze the themes, styles, and structures of these texts and make thematic connections among diverse authors, periods, and settings. Students work independently on many of their analyses and engage in creative collaboration with their peers. Students also practice test-taking skills for standardized assessments in critical reading and writing.

COM230: INTRO TO JOURNALISM 1

English Elective

Grade Level: 9, 10, 11, 12

Course Length: One semester

Does your curiosity lead you to the heart of the matter? Channel this curiosity into developing strong writing, critical thinking, and research skills to perform interviews and write influential pieces such as articles and blog posts. Learn about the evolution of journalism and its ethics, bias, and career directions to forge your path in this field.

ENG020: PUBLIC SPEAKING

English Elective

Grade Level: 9, 10, 11, 12

Course Length: One semester

Materials: Student must provide a webcam and recording software

Students are introduced to public speaking as an important component of their academic, work, and social lives. They study public speaking occasions and develop skills as fair and critical listeners, or consumers, of spoken information and persuasion. Students study types of speeches (informative, persuasive, dramatic, and special occasion), read and listen to models of speeches, and prepare and present their own speeches to diverse audiences. Students learn to choose speaking topics and adapt them for specific audiences, to research and support their ideas, and to benefit from listener feedback. They study how to incorporate well-designed visual and multimedia aids in presentations and how to maintain a credible presence in the digital world. Students also learn about the ethics of public speaking and about techniques for managing communication anxiety.

ENG030: CREATIVE WRITING A & B

English Elective

Grade Level: 9, 10, 11, 12

Course Length: One or two semesters

Students create original essays, poems, and short stories in this course, which uses two textbooks and focuses on the four-step process writing model. They read professionally written forms of creative writing as models and then integrate their impressions of these works with their personal life experiences as they compose their own writing projects. Students are encouraged to write about topics they find engaging as they practice writing on the following themes: narration, definition, process analysis, cause and effect, and comparison/contrast. After students turn in each assignment, the teacher supplies detailed suggestions for revision. This feedback helps students learn how to improve their self-expression and self-editing skills.

Family & Consumer Science

BUS120: HOSPITALITY & TOURISM

Grade Level: 9, 10, 11, 12

Course Length: One semester

Materials: Household items required (but not supplied): A digital camera or camera phone, Ingredients, and tools to make a simple food dish of the student's choice; stove/grill/oven/microwave.

Where is your dream travel destination? Now imagine working there! You'll be introduced to a thriving industry that caters to the needs of travelers through managing hotels, restaurants, cruise ships, resorts, theme parks, and any other kind of hospitality you can imagine. Operating busy tourist locations, creating marketing around leisure and travel, spotting trends, and planning events are just a few of the key aspects you will explore within this exciting field.

OTH080: NUTRITION & WELLNESS

Grade Level: 9, 10, 11, 12

Course Length: One semester

This one-semester elective course provides students with an overview of good nutrition principles that are necessary for physical and mental wellness and a long, healthy life. Instructional materials include discussions of digestion, basic nutrients, weight management, sports and fitness, and life-span nutrition. The Nutrition and Wellness course emphasizes an understanding of today's food and eating trends and gives students the capacity to intelligently evaluate all available sources of nutrition information and make informed decisions.

OTH161: EARLY CHILDHOOD EDUCATION 1

Grade Level: 9, 10, 11, 12

Course Length: One semester

Are you curious to see what it takes to educate and nurture early learners? Use your curiosity to explore the fundamentals of childcare, like nutrition and safety, but also the complex relationships caregivers have with parents and their children. Examine the various life stages of child development and the best educational practices to enrich their minds while thinking about a possible future as a childcare provider.

OTH162: EARLY CHILDHOOD EDUCATION 2

Grade Level: 9, 10, 11, 12

Course Length: One semester

Prerequisites: OTH035: Early Childhood Education or OTH161: Early Childhood Education 1

Building on the previous prerequisite course, develop the joys of providing exceptional childcare and helping to develop future generations. Learn the importance of play and use it to build engaging educational activities that build literacy and math skills through each stage of childhood and special need. Use this knowledge to develop your professional skills well suited to a career in childcare.

OTH171: CULINARY ARTS 1

Grade Level: 9, 10, 11, 12

Course Length: One semester

Materials: Household items required (but not supplied): digital camera, kitchen equipment and supplies (ingredients) for cooking activities.

Thinking of a career in the food service industry or looking to develop your culinary skills? This introductory course will provide you with basic cooking and knife skills while preparing you for entry into the culinary world. Discover the history of food culture, food service, and global cuisines while learning about food science principles and preservation. Finally, prepare for your future by building the professional, communication, leadership, and teamwork skills that are critical to a career in the culinary arts.

OTH172: CULINARY ARTS 2

Grade Level: 9, 10, 11, 12

Course Length: One semester

Prerequisites: OTH093: Introduction to Culinary Arts or OTH171: Culinary Arts 1

Materials: Household items required (but not supplied): digital camera, kitchen equipment and supplies (ingredients) for cooking activities.

Did you know that baking is considered a science? Building on the prior prerequisite course, discover how to elevate your culinary skills through the creation of stocks, soups, sauces, and learn baking techniques. Examine sustainable food practices and the benefits of nutrition while maintaining taste, plating, and presentation to truly wow your guests. The last unit in this course explores careers in the culinary arts for ways to channel your newfound passion!

OTH181: FASHION DESIGN

Grade Level: 9, 10, 11, 12**Course Length:** One semester

Are you a fashion trend follower? Are you drawn to how designers have pulled together fabrics and colors to create memorable pieces? Do you dream of designing your own line of clothing or accessories? Learn what it takes to get started in the fashion industry, from the careers available to new technology and trends reshaping the industry every day. Start creating!

OTH182: INTERIOR DESIGN

Grade Level: 9, 10, 11, 12**Course Length:** One semester

Do you have a flare for designing and decorating? If so, this course will show you how to turn your interests and skills into a career. From professionals who own their own business to those working within a larger company, interior designers do it all – from planning the color scheme to choosing furniture and light fixtures – with the end goal of creating a space where people can live or work comfortably, safely, and happily. You'll learn about color, texture, trends and styles over time, how homes are built, and "green" options for homes and businesses. Most importantly, you'll learn how to work with a client to meet their unique needs and style requirements. This course will help you identify parts of interior design that are most interesting to you, helping you chart the path for your future.

OTH200: INTRO TO EDUCATION

Grade Level: 9, 10, 11, 12**Course Length:** One semester

Throughout the course, students will explore career opportunities within the field of education. They will learn what it means to be a professional in the classroom, whether it be working alongside co-teachers or managing an inclusive and diverse group of students. Students will learn about the code of conduct expected of educational professionals. Students will explore the history and best practices in the teaching profession as well as professional development opportunities. They will discover what it means to emerge as leaders in the field.

General Electives

CAR100: CAREER PLANNING

Grade Level: 9, 10, 11, 12

Course Length: One semester

Students use an informative interactive process to explore career and life options in this one-semester elective. They begin with a thorough examination of their own interests, aptitudes, achievements, and personality styles. Instructional material then helps them match job market information, interview techniques, training requirements, and educational paths to potential careers that suit their strengths and personal priorities. Successful completion of this course gives students the ability to identify and describe their personal interests, aptitudes, and lifestyle goals; locate and evaluate information about different careers; identify skills and knowledge needed for careers of interest and how to obtain them; and create an entrepreneurial business plan.

OTH090: LIFE SKILLS

Grade Level: 9, 10, 11, 12

Course Length: One semester

This one-semester elective is designed to increase students' knowledge of and ability in using the skills necessary for everyday living. Life Skills emphasizes defining personal values, goal-setting and planning, and solving problems. Instructional material focuses on dealing with media and peer pressure, communication and relationships, working with others, avoiding and/or resolving conflict, decision making, wellness and personal safety, aspects of good citizenship, environmental awareness, and how students can contribute to their own community.

WBL531: WORK BASED LEARNING

Grade Level: 12

Course Length: One semester

***Students interested in this course must consult with their counselor.**

This course seeks to help students blend classroom learning with work practice. This course is designed for students who currently have a job that has been identified as eligible for course credit.

ENGLISH LAB A/B

***ELECTIVE CREDIT ONLY**

Grade Level: 9, 10, 11, 12

Course Length: One or two semesters

Prerequisites: Teacher/school counselor recommendation

***Students should not sign up for this course, it is assigned with administrative or counselor approval.**

The English Success Lab course is an elective replacement designed to provide targeted support and intervention for students who require additional assistance in English language arts. Students are placed in this course based on a comprehensive assessment of their academic needs, which includes standardized assessments and grades. In the English Success Lab, students receive personalized instruction and support tailored to address their specific areas of difficulty, such as reading comprehension, writing skills, grammar, and vocabulary. The course aims to strengthen foundational English language skills, improve critical thinking and communication abilities, and boost overall confidence in language arts. Through individualized learning plans and differentiated instruction, students have the opportunity to make significant progress and achieve success in their English studies.

MATH LAB A/B

***ELECTIVE CREDIT ONLY**

Grade Level: 9, 10, 11, 12

Course Length: One or two semesters

Prerequisites: Teacher/school counselor recommendation

***Students should not sign up for this course, it is assigned with administrative or counselor approval.**

The Math Success Lab course is an elective replacement designed to provide targeted support and intervention for students who require additional assistance in mathematics. Students are placed in this course based on a comprehensive assessment of their academic needs, which includes standardized assessments and grades. In the Math Success Lab, students receive personalized instruction and support tailored to address their specific areas of difficulty. The course aims to strengthen foundational math skills, improve problem-solving abilities, and boost overall confidence in mathematics. Through individualized learning plans and differentiated instruction, students have the opportunity to make significant progress and achieve success in their math studies.

READING STRATEGIES

***ELECTIVE CREDIT ONLY**

Grade Level: 9, 10, 11, 12

Course Length: One semester

Prerequisites: Teacher/school counselor recommendation

Students who struggle with comprehension of reading material, performing well on quizzes, and/or test-taking in their high school courses will benefit from this one semester course. Students will learn a variety of reading strategies to connect to self-selected reading material as well as reading excerpts through teacher modeling and demonstration, examples, explanation, and coaching. An important aspect of this course is the Reader's Notebook, where students will interact with their text and reflect on their reading, with other students and their teacher. Students will learn how to practice skills and strategies with any text they read, in high school, the workplace, their community and beyond.

Health & Human Services

CAR019: HEALTHCARE EXPLORATIONS

Grade Level: 9, 10, 11, 12

Course Length: One semester

This course is designed as an exploration of the healthcare career pathways. Students will get an introduction to healthcare careers so they can better assess which pathway to pursue. In this course students explore basic concepts in the broad areas of healthcare, as well as career options in each area. Students study the concepts of disease prevention, personal health management, and social work, in addition to other common health related functions. Students complete projects to develop a deeper understanding of the roles these healthcare functions play.

EMERGENCY MEDICAL RESPONDER

Grade Level: 11, 12

Course Length: One semester

This High School EMT class is designed to provide students with the knowledge and skills necessary to become certified Emergency Medical Technicians. The course will cover a wide range of topics, including basic anatomy and physiology, medical emergencies, trauma care, and essential life support skills. The class will incorporate both theoretical knowledge and hands-on practical skills to prepare students for real-world emergency situations.

HLT213: INTRODUCTION TO MEDICAL TERMINOLOGY I

Grade Level: 9, 10, 11, 12

Course Length: One semester

This course simplifies the process of memorizing complex medical terminology by focusing on the important word parts—common prefixes, suffixes and root words—that provide a foundation for learning hundreds of medical terms. Organized by body systems, the course follows a logical flow of information: an overview of the body system's structure and functions, a summary of applicable medical specialties, and ultimately pathology, diagnostic, and treatment procedures.

HLT214: INTRODUCTION TO MEDICAL TERMINOLOGY II

Grade Level: 9, 10, 11, 12

Course Length: One semester

Prerequisites: HLT213: Introduction to Medical Terminology I

This course simplifies the process of memorizing complex medical terminology by focusing on the important word parts—common prefixes, suffixes and root words—that provide a foundation for learning hundreds of medical terms. Organized by body systems, the course follows a logical flow of information: an overview of the body system's structure and functions, a summary of applicable medical specialties, and ultimately pathology, diagnostic, and treatment procedures.

SCI330A: ANATOMY & PHYSIOLOGY A

Grade Level: 9, 10, 11, 12

Course Length: One semester

This is the first semester of a two-semester course. This course will enable students to develop an understanding of the relationships between structures and functions of the human body. The course covers basic human anatomy and physiology, including life functions, terminology, body parts and their locations, human development, and body processes.

SCI330B: ANATOMY & PHYSIOLOGY B

Grade Level: 9, 10, 11, 12

Course Length: One semester

Prerequisites: SCI330A: Anatomy & Physiology A

This is the second semester of a two-semester course. This course will enable students to continue their study of developing an understanding of the relationships between structures and functions of the human body. The course covers basic human anatomy and physiology, including life functions, terminology, body parts and their locations, human development, and body processes.

Law & Order

LAW110-PBL: CAREERS IN CRIMINAL JUSTICE 1

Grade Level: 9, 10, 11, 12

Course Length: One Semester

Have you ever wondered what steps take place as people move through the court system? The criminal justice system is a very complex field that requires dedicated people willing to pursue equal justice for all. Explore different career choices and how the juvenile justice, the correctional system, and the trial process all work together to maintain social order.

LAW111-PBL: CAREERS IN CRIMINAL JUSTICE 2

Grade Level: 9, 10, 11, 12

Course Length: One Semester

Prerequisite: LAW11-PBL Careers in Criminal Justice 1

Have you ever thought about a career as a police officer, an FBI or DEA agent or any occupation that seeks to pursue justice for all? Careers in criminal justice can be found at local, county, state, and federal levels, and even in the private sector. Explore some of the various occupations in this field, while simultaneously learning how they interact with each other and other first responders. Discover various interviewing techniques to uncover the truth. Understand the importance of making ethical decisions, and how you need to keep your sense of right and wrong in check to be successful in this field.

OTH039-PBL: CRIMINOLOGY

Grade Level: 9, 10, 11, 12

Course Length: One Semester

In the modern world, many citizens share a concern about criminal behaviors and intent. This course introduces students to the field of criminology, the study of crime. Students look at possible explanations for crime from psychological, biological, and sociological perspectives; explore the categories and social consequences of crime; and investigate how the criminal justice system handles criminals and their misdeeds. The course explores some key questions: Why do some individuals commit crimes while others do not? What aspects of culture and society promote crime? Why are different punishments given for the same crime? What factors – from arrest to punishment – help shape the criminal case process?

SCI030: FORENSIC SCIENCE

Grade Level: 11, 12

Course Length: One semester

Prerequisites: Successful completion of at least two years of high school science, including SCI203: Biology (or equivalent); SCI303: Chemistry is highly recommended

This course surveys key topics in forensic science, including the application of the scientific process to forensic analysis, procedures and principles of crime scene investigation, physical and trace evidence, and the law and courtroom procedures from the perspective of the forensic scientist. Through online lessons, virtual and hands-on labs, and analysis of fictional crime scenarios, students learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection, and responsible conclusions.

Manufacturing & the Trades

CAR022: CONSTRUCTION EXPLORATIONS

Grade Level: 9, 10, 11, 12

Course Length: One semester

This course provides students with an introduction of the basic equipment used in the construction industry. Students learn about basic equipment operations and job responsibilities. This course prepares students to use concepts pertaining to safety, maintenance, mathematics and communication that Operating Engineers may experience.

MFG010: BASIC GRADE & CONSTRUCTION MATH

Grade Level: 9, 10, 11, 12

Course Length: One semester

Prerequisites: CAR022: Construction Explorations

In the construction industry, grading is the work of ensuring a level base, or a grade with a specific slope. Grade construction work is needed in almost any building project, from laying a building foundation, to landscaping, or even roadwork. In this course, you will be introduced to core equipment used in the staking process, as well as Personal Protective Equipment (PPE) used in the construction industry. Communication processes used in the construction industry for interpreting and setting grade are also an important part of this course. Finally, you will learn mathematical concepts related to the construction industry for grade staking.

MFG201: BASIC CONSTRUCTION EQUIPMENT FUNDAMENTALS

Grade Level: 9, 10, 11, 12

Course Length: One semester

Prerequisites: CAR022: Construction Explorations; MFG010: Basic Grade & Construction Math

In the construction industry, the proper use of heavy equipment is necessary to ensure quality work and a safe work environment. In addition, being able to recognize and determine the use of specific heavy equipment will create a more efficient work team. Heavy equipment is used in almost any construction project, from building a house, to excavating for a new road. In this course, you will be introduced to core equipment used by operating engineers, as well as their maintenance needs. Communication processes used by operating engineers, rigging and signaling practices, safety awareness and mathematic concepts related to the construction industry are also covered.

MFG202: BASIC MAINTENANCE OF MOBILE EQUIPMENT

Grade Level: 9, 10, 11, 12

Course Length: One semester

Prerequisites: CAR022: Construction Explorations; MFG010: Basic Grade & Construction Math; MFG201 Basic Construction Equipment Fundamentals

This course focuses directly on maintenance of mobile equipment through a series of engaging tutorials. A major focus of the course is on maintenance safety including such topics as LOTO. Other topics include tools and fasteners, preventative maintenance principles, engines, intake and exhaust, fuel systems, coolant systems, filters and filtration, lubrication systems, hydraulics, electrical systems, tires and tracks and undercarriages.



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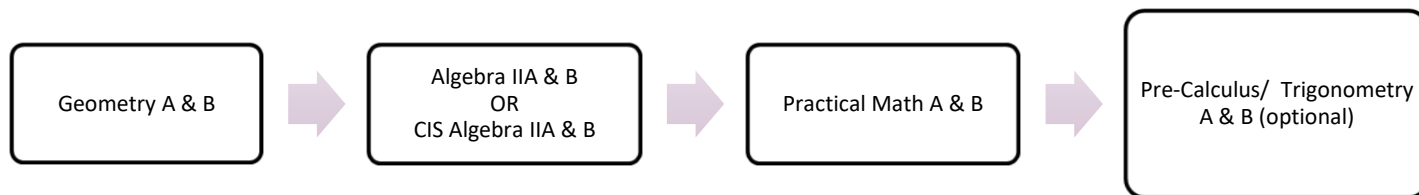


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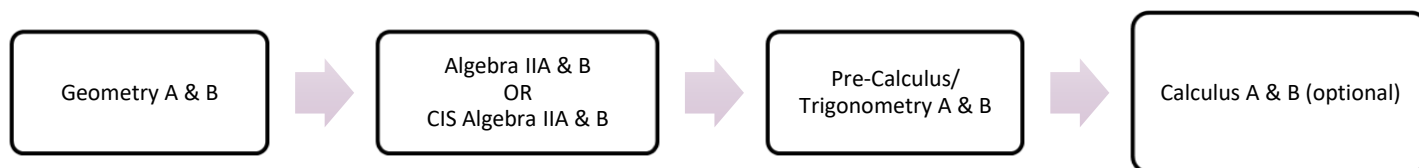
Mathematics

Mathematics Typical Course Progression:

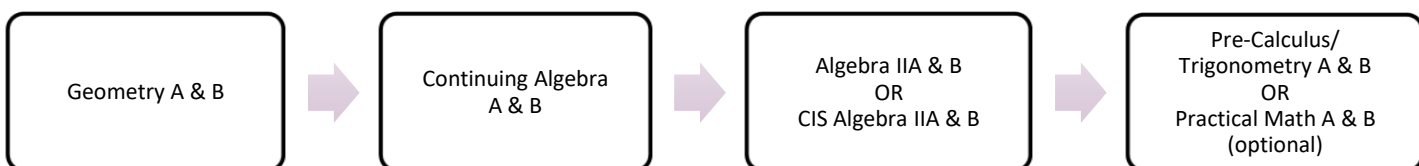
PATHWAY OPTION 1



PATHWAY OPTION 2



PATHWAY OPTION 3



The courses listed in these pathways are typical for a MNVA student, however, placement in core courses will be based on prior course completion. Honors courses may be available to students that are interested, please remember, to continue in an AP or honors level course, a student must maintain a minimum C average in that course.

MTH001: MATH FOUNDATIONS IA & B

***Students should not sign up for this course, it is assigned with administrative approval.**

Grade Level: 9, 10, 11, 12

Course Length: Two semesters

Prerequisites: Teacher/school counselor recommendation

Students build and reinforce foundational math skills typically found in third through fifth grade for which they have not achieved mastery. They progress through carefully paced, guided instruction and engaging interactive practice. If needed, students can move on to Math Foundations II (addressing skills typically found in sixth through eighth grade) to further develop the computational skills and conceptual understanding needed to undertake high school math courses with confidence.

MTH011: MATH FOUNDATIONS IIA & B

***Students should not sign up for this course, it is assigned with administrative approval.**

Grade Level: 9, 10, 11, 12

Course Length: Two semesters

Prerequisites: Teacher/school counselor recommendation; MTH001: Math Foundations I is not required

Students build and reinforce foundational math skills typically found in fifth through eighth grade, achieving the computational skills and conceptual understanding needed to undertake high school math courses with confidence. Carefully paced, guided instruction is accompanied by interactive practice that is engaging and accessible. This course is appropriate for use as remediation at the high school level or as a bridge to high school.

MTH113: PRE-ALGEBRA A & B

***Students should not sign up for this course, it is assigned with administrative approval.**

Grade Level: 9, 10, 11, 12

Course Length: Two semesters

Prerequisites: Teacher/school counselor recommendation

In this course, students take a broader look at computational and problem-solving skills while learning the language of algebra. Students translate word phrases and sentences into mathematical expressions; analyze geometric figures; solve problems involving percentages, ratios, and proportions; graph different kinds of equations and inequalities; calculate statistical measures and probabilities; apply the Pythagorean theorem; and explain strategies for solving real-world problems. Lessons provide demonstrations of key concepts as well as interactive problems with contextual feedback.

MTH207: CONTINUING ALGEBRA A & B

Grade Level: 10

Course Length: Two semesters

Materials: Algebra I: A Reference Guide and Problem Sets

Prerequisites: MTH107: Developmental Algebra (or equivalent)

This is the second course in a two-year algebra sequence. In this course, students build on what they learned in Developmental Algebra to complete their knowledge of all topics associated with a deep understanding of Algebra I. They learn about relations and functions, radicals and radical expressions, polynomials and their graphs, factoring expressions and using factoring to solve equations, solving quadratics, rational expressions, and logic and reasoning.

MTH208: GEOMETRY A & B

Grade Level: 9

Course Length: Two semesters

Prerequisites: MTH128: Algebra I, MTH207 Continuing Algebra (or equivalent)

This Summit Geometry course builds on the geometry covered in middle school to explore more complex geometric situations and deepen students' ability to explain geometric relationships, moving toward formal mathematical arguments. Specific topics include similarity and congruence, analytic geometry, circles, the Pythagorean theorem, right triangle trigonometry, analysis of three-dimensional objects, conic sections, and geometric modeling.

MTH209: HONORS GEOMETRY A & B

Grade Level: 9

Course Length: Two semesters

Prerequisites: MTH128: Algebra I/MTH207: Continuing Algebra (or equivalent) and teacher/counselor recommendation



This Geometry Honors Summit course builds on the geometry covered in middle school to explore more complex geometric situations and deepen students' ability to explain geometric relationships, moving toward formal mathematical arguments. Specific topics include similarity and congruence, analytic geometry, circles, the Pythagorean theorem, right triangle trigonometry, analysis of three-dimensional objects, conic sections, and geometric modeling. This course includes all the topics in MTH208 as well as several extension activities. Each semester also includes an independent honors project.

MTH307: PRACTICAL MATH A & B

Grade Level: 11, 12

Course Length: Two semesters

Prerequisites: MTH128: Algebra I/MTH207: Continuing Algebra and MTH208: Geometry (or equivalent)

In this course, students use math to solve real-world problems – real-world problems to solidify their understanding of key mathematical topics. Data analysis, math modeling, and personal finance are key themes in this course. Specific topics of student include statistics, probability, graphs of statistical data, regression, finance, and budgeting. In addition, students learn how to use several mathematical models involving algebra and geometry to solve problems. Proficiency is measured through frequent online and offline assessments as well as class participation. Units focused on projects also allow students to apply and extend their math skills in real-world cases.

MTH308: ALGEBRA IIA & B

Grade Level: 10, 11

Course Length: Two semesters

Prerequisites: MTH128: Algebra I/MTH207: Continuing Algebra and MTH208: Geometry (or equivalent)

In this Summit Algebra 2 course, students build on their work with linear, quadratic, and exponential functions, and extend their repertoire to include polynomial, rational, radical, and trigonometric functions. Students also expand their ability to model situations and solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The course covers sequences and series, probability distributions, and more advanced data analysis techniques.

MTH309: HONORS ALGEBRA IIA & B
Grade Level: 10, 11

Course Length: Two semesters

Prerequisites: MTH128: Algebra I/MTH207: Continuing Algebra and MTH208: Geometry (or equivalent) and teacher/counselor recommendation

In this Algebra 2 Honors Summit course, students build on their work with linear, quadratic, and exponential functions, and extend their repertoire to include polynomial, rational, radical, and trigonometric functions. Students also expand their ability to model situations and solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The course covers sequences and series, probability distributions, and more advanced data analysis techniques. This course includes all the topics in MTH308 as well as several extension activities. Each semester also includes an independent honors project.

MTH310: CIS ALGEBRA IIA & B
Grade Level: 10, 11

Course Length: Two semesters

Prerequisites: MTH128: Algebra I/MTH207: Continuing Algebra and MTH208: Geometry (or equivalent) and teacher/counselor recommendation


In this College-in-the-schools algebra course, students build on their previous knowledge of linear, quadratic, and exponential functions, and extend their repertoire to include polynomial, rational, radical, and trigonometric functions. Students will also expand their ability to model situations and solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Familiarity with graphing software such as *Desmos* or a using graphing calculator will be important. This course satisfies the requirements of the course, Math 102 *College Algebra* and is a dual high school / college credit course.

MTH403: PRE-CALCULUS & TRIGONOMETRY A & B
Grade Level: 11, 12

Course Length: Two semesters

Materials: Texas Instruments T1-84 Plus graphing calculator is recommended

Prerequisites: MTH208: Geometry and MTH302: Algebra II (or equivalent)

Pre-calculus weaves together concepts of algebra and geometry into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. Topics include quadratic, exponential, logarithmic, radical, polynomial, and rational functions; matrices; and conic sections in the first semester. The second semester covers an introduction to infinite series, trigonometric ratios, functions, and equations; inverse trigonometric functions; applications of trigonometry, including vectors; polar equations and polar form of complex numbers; and arithmetic of complex numbers.

MTH433: CALCULUS A & B
Grade Level: 12

Course Length: Two semesters

Materials: Java is needed for the embedded graphing calculator applet (GCalc)

Prerequisites: MTH403: Pre-Calculus/Trigonometry (or equivalent)

This course provides a comprehensive survey of differential and integral calculus concepts, including limits, derivative and integral computation, linearization, Riemann sums, the fundamental theorem of calculus, and differential equations. Content is presented across ten units and covers various applications, including graph analysis, linear motion, average value, area, volume, and growth and decay models. In this course students use an online textbook, which supplements the instruction they receive and provides additional opportunities to practice using the content they've learned.

MTH322: CONSUMER MATH A & B
Elective Credit Only- Does Not Qualify for Math Credit
Grade Level: 9, 10, 11, 12

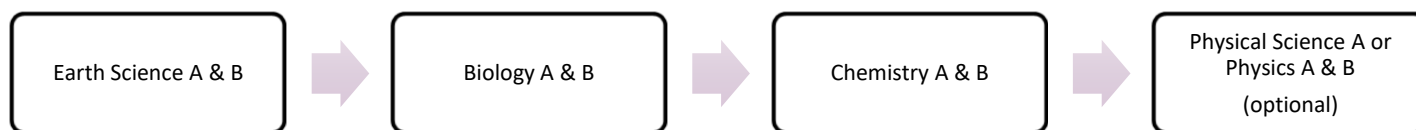
Course Length: Two semesters

In Consumer Math, students will study and review arithmetic skills they can apply in their personal lives and in their future careers. The first semester of the course begins with a focus on occupational topics; it includes details on jobs, wages, deductions, taxes, insurance, recreation and spending, and transportation. In the second semester, students learn about personal finances, checking and savings accounts, loans and buying on credit, automobile expenses, and housing expenses. Narrated slideshows help illustrate some of the more difficult content. Throughout the course, students participate in online discussions with each other and their teacher.

Physical Education & Health

Science

Science Typical Course Progression:



The courses listed in this pathway are typical for a MNVA student however, placement in core courses will be based on prior course completion. Honors courses may be available to students that are interested, please remember, to continue in an AP or honors level course, a student must maintain a minimum C average in that course.

SCI102A: PHYSICAL SCIENCE A

Grade Level: 12

Course Length: One semester

Materials: Lab Guide

Students will focus on basic Newtonian physics. Students learn how energy is transformed and transferred through motion, waves, and heat energy, light and electricity. Fluid dynamics and forces are also investigated. Students can expect to spend two days a week working on a virtual lab. Students will need to take a quiz on most days when there is a reading assignment. Students will need to block at least 45 minutes per day to meet the requirements of SCI 102A.

SCI113: EARTH SCIENCE A & B

Grade Level: 9

Course Length: Two semesters

Is your favorite lake healthy or not? What makes the sunshine? How will climate change affect me? This required science course consists of online lessons, collaborative activities, and virtual laboratories which focus on these current earth science issues. We'll also explore where geologists find oil, how to prepare for natural disasters like tsunamis and earthquakes, why people are in a fierce debate about copper mining in northern Minnesota, and how astronomers can figure out if a far-away planet is possibly habitable. Students will gain practical experience in implementing scientific methods. This course serves as a steppingstone to more advanced science courses.

SCI203: BIOLOGY A & B

Grade Level: 10

Course Length: Two semesters

Materials: Biology; A Reference Guide

Students will focus on the chemistry of living things: the cell, genetics, evolution, the structure and function of living things, and ecology addressing the MN State Standards for biology. The program consists of online lessons including extensive animations, videos, external websites, and laboratory experiments in online simulations. Biology is required for graduation. Students will take the MCA High School Science Test in the spring. Students will need to block at least 45 minutes a day for learning vocabulary, reading, watching, and experimenting to succeed in this course.

SCI204: HONORS BIOLOGY A & B

Grade Level: 10

Course Length: Two semesters

Materials: Biology; A Reference Guide

Prerequisites: Success in previous science courses and teacher/counselor recommendation

This course is a rigorous college preparatory year-long course. This course provides students with a challenging honors-level biology curriculum, focusing on the chemistry of living things: the cell, genetics, evolution, the structure and function of living things, and ecology. The program consists of advanced online lessons, including extensive animations, an associated reference book, collaborative explorations, and laboratory experiments students can conduct at home. Honors activities include debates, research papers, and extended laboratories.

SCI303: CHEMISTRY A & B

Grade Level: 11

Course Length: Two semesters

Materials: Chemistry: Problems and Solutions available online

Prerequisites: Middle School Physical Science or SCI102: Physical Science and satisfactory grasp of algebra basics, evidenced by success in MTH122: Algebra I (or equivalent)

Chemistry is required by the State of Minnesota to graduate from all high schools; this class meets those requirements. Chemistry takes 60-90 minutes a day. This is the level of Chemistry you would choose if you do well in math and science but do not wish to take Honors. This yearlong course surveys all key areas of chemistry, including atomic structure, chemical bonding and reactions, solutions, stoichiometry, thermochemistry, organic chemistry, and nuclear chemistry. The course includes direct online instruction, virtual laboratories, and an online problem-solving book.





SCI304: HONORS CHEMISTRY A & B**Grade Level:** 11**Course Length:** Two semesters**Materials:** Chemistry: Problems and Solutions available online**Prerequisites:** A grade of an "A" in Biology and Algebra I or an "A" or "B" in Honors Biology and Honors Algebra I (or equivalents), and/or teacher/school counselor recommendation.

This course is a rigorous college preparatory course. This yearlong course surveys all key areas of chemistry, including atomic structure, chemical bonding and reactions, solutions, stoichiometry, thermochemistry, organic chemistry, and nuclear chemistry. The course includes direct online instruction, virtual laboratories, an online problem-solving book, and two research papers each semester. Chemistry is required by the State of Minnesota to graduate from all High Schools; this class meets those requirements. Chemistry takes 60-90 minutes a day. Please discuss this option with your counselor if this is the level of Chemistry you desire.

SCI403: PHYSICS A & B**Grade Level:** 12**Course Length:** Two semesters**Materials:** Physics: Problems and Solutions**Prerequisites:** MTH302: Algebra II and MTH403: Pre-Calculus/Trigonometry (or equivalents) (MTH403 strongly recommended as a prerequisite, but this course may instead be taken concurrently with MTH403)

This course provides a comprehensive survey of all key areas: physical systems, measurement, kinematics, dynamics, momentum, energy, thermodynamics, waves, electricity, and magnetism, and introduces students to modern physics topics such as quantum theory and the atomic nucleus. The course gives students a solid basis to move on to more advanced courses later in their academic careers. The program consists of online instruction, virtual laboratories, and related assessments, plus an associated problem-solving book.

AEROSPACE EDUCATION**Grade Level:** 9, 10, 11, 12**Course Length:** One semester

Explore the dynamic world of aerospace through this engaging semester-long course. Students will delve into the fundamentals of aviation and space exploration, covering topics such as the principles of flight, aerodynamics, rocketry, and space missions. Through a combination of classroom instruction, hands-on activities, and multimedia resources, students will gain a comprehensive understanding of the history, technology, and future prospects of aerospace. From the early pioneers of flight to the latest advancements in space exploration, this course will inspire curiosity and ignite a passion for aerospace science. Open your mind to the limitless possibilities of the skies and beyond in Aerospace Education.

SCI010: ENVIRONMENTAL SCIENCE**Grade Level:** 9, 10, 11, 12**Course Length:** One semester**Materials:** None**Prerequisites:** Previous High School Biology recommended, but not required

This course surveys key topic areas including the application of scientific process to environmental analysis; ecology; energy flow; ecological structures; earth systems; and atmospheric, land, and water science. Topics also include the management of natural resources and analysis of private and governmental decisions involving the environment. Students explore actual case studies and conduct many hands-on research activities, learning that political and private decisions about the environment and the use of resources require accurate application of scientific processes, including proper data collection and responsible conclusions.

SCI020: ASTRONOMY 1**Grade Level:** 9, 10, 11, 12**Course Length:** One semester

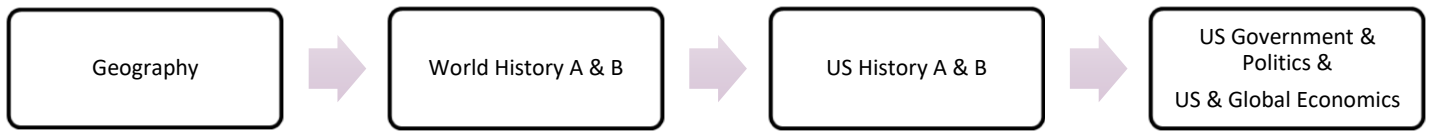
Follow your enthusiasm for space by introducing yourself to the study of astronomy. This course will include topics such as astronomy's history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Further knowledge is gained through the study of galaxies, stars, and the origin of the universe.

SCI021: ASTRONOMY 2**Grade Level:** 9, 10, 11, 12**Course Length:** One semester**Prerequisites:** SCI020: Astronomy 1

Building upon the prior prerequisite course, dive deeper into the universe and develop a lifelong passion for space exploration and investigation. Become familiar with the inner and outer planets of the solar system as well as the sun, comets, asteroids, and meteors. Additional topics include space travel and settlements as well as the formation of planets.

Social Studies

Social Studies Typical Course Progression:



The courses listed in this pathway are typical for a MNVA student however, placement in core courses will be based on prior course completion. Honors courses may be available to students that are interested, please remember, to continue in an AP or honors level course, a student must maintain a minimum C average in that course.

HST103: WORLD HISTORY A & B

Grade Level: 10

Course Length: Two semesters

Materials: World History: Our Human Story

Prerequisites: Middle School American History A, World History A or World History B (or equivalents)

In this survey of world history from prehistoric to modern times, students focus on the key developments and events that have shaped civilization across time. The course is organized chronologically and, within broad eras, regionally. Lessons address developments in religion, philosophy, the arts, science and technology, and political history. The course also introduces geography concepts and skills within the context of the historical narrative. Online lessons and assessments complement World History: Our Human Story, a textbook written and published by K¹². Students analyze primary sources and maps, create timelines, and complete other projects—practicing historical thinking and writing skills as they explore the broad themes and big ideas of human history.

HST104: HONORS WORLD HISTORY A & B

Grade Level: 10

Course Length: Two semesters

Materials: World History: Our Human Story

Prerequisites: Middle School American History A, World History A or World History B (or equivalents)



In this challenging survey of world history from prehistoric to modern times, students focus in-depth on the developments and events that have shaped civilization across time. The course is organized chronologically and, within broad eras, regionally. Lessons address developments in religion, philosophy, the arts, science and technology, and political history. The course also introduces geography concepts and skills within the context of the historical narrative. Online lessons and assessments complement World History: Our Human Story, a textbook written and published by K¹². Students are challenged to consider topics in depth as they analyze primary sources and maps, create timelines, and complete other projects—practicing advanced historical thinking and writing skills as they explore the broad themes and big ideas of human history. Students complete an independent honors project each semester.

HST213: GEOGRAPHY A

Grade Level: 9

Course Length: One semester

Materials: Students will need to download Google Earth

This course explores world geography on a region-by-region basis and covers a broad range of geographical perspectives. Each unit covers one continent or other major geographical region of the world. Units include North America, Central America, South America, and Western Europe. Students first learn about each region's landforms, climate, and population. They then examine that region's cultural, economic, and political institutions. Each unit is presented in a parallel format to facilitate interregional comparisons and allow students to see the similarities and differences between the regions more clearly.

HST303: US HISTORY A & B

Grade Level: 11

Course Length: Two semesters

Materials: The American Odyssey: A History of the United States

Prerequisites: Middle School Intermediate World History B or HST103: World History (or equivalents)

This course is a full-year survey that provides students with a view of American history from the first migrations of nomadic people to North America to recent events. Readings are drawn from K12's The American Odyssey: A History of the United States. Online lessons help students organize their study, explore topics, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.



HST304: HONORS US HISTORY A & B**Grade Level:** 11**Course Length:** Two semesters**Materials:** The American Odyssey: A History of the United States**Prerequisites:** HST104: Honors World History, or HST204: Honors Modern World Studies (or equivalents), and teacher/school counselor recommendation

This course is a challenging full-year survey that provides students with a comprehensive view of American history from the first migrations of nomadic people to North America to recent events. Readings are drawn from K12's The American Odyssey: A History of the United States. Online lessons help students organize their study, explore topics in depth, review in preparation for assessments, and practice advanced skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research. Students complete independent projects each semester.

HST403: US GOVERNMENT & POLITICS**Grade Level:** 12**Course Length:** One semester

This course studies the history, organization, and functions of the United States government. Beginning with the Declaration of Independence and continuing through to the present day, students explore the relationship between individual Americans and our governing bodies. Students take a close look at the political culture of our country and gain insight into the challenges faced by citizens, elected government officials, political activists, and others. Students also learn about the roles of political parties, interest groups, the media, and the Supreme Court, and discuss their own views on current political issues.

HST413: US & GLOBAL ECONOMICS**Grade Level:** 12**Course Length:** One semester**Prerequisites:** HST403: U.S. Government and Politics (or equivalent) is recommended, but not required

In this course on economic principles, students explore choices they face as producers, consumers, investors, and taxpayers. Students apply what they learn to real-world simulation problems. Topics of study include markets from historic and contemporary perspectives; supply and demand; theories of early economic philosophers such as Adam Smith and David Ricardo; theories of value; money (what it is, how it evolved, the role of banks, investment houses, and the Federal Reserve); Keynesian economics; how capitalism functions, focusing on productivity, wages, investment, and growth; issues of capitalism, such as unemployment, inflation, and the national debt; and a survey of markets in such areas as China, Europe, and the Middle East.

HST020: PSYCHOLOGY**Grade Level:** 10, 11, 12**Course Length:** One semester

In this one-semester course, students investigate why human beings think and act the way they do. This is an introductory course that broadly covers several areas of psychology. Instructional material presents theories and current research for students to critically evaluate and understand. Each unit introduces terminology, theories, and research that are critical to the understanding of psychology and includes tutorials and interactive exercises. Students learn how to define and use key terms of psychology and how to apply psychological principles to their own lives. Unit topics include: Methods of Study, Biological Basis for Behavior, Learning and Memory, Development and Individual Differences, and Psychological Disorders.

HST060-PBL: SOCIOLOGY**Grade Level:** 10, 11, 12**Course Length:** One semester

Human beings are complex creatures, and when we interact and begin to form relationships and societies, things become even more complicated. Are we more likely to act differently in a group than we will when we're alone? How do we learn how to be "human"? Examine answers to these questions and many more as you explore culture, group behavior, and societal institutions and how they affect human behavior.

OTH031: ARCHAEOLOGY**Grade Level:** 9, 10, 11, 12**Course Length:** One semester

The field of archeology helps us to better understand the events and societies of the past that have helped to shape our modern world. This course focuses on the techniques, methods, and theories that guide the study of the past. Students will learn how archaeological research is conducted and interpreted, as well as how artifacts are located and preserved. Finally, students will learn about the relationship of material items to culture and what we can learn about past societies from these items.

Technology & Design

*For many of our Technology based electives it is important to have the following system requirements: Microsoft Windows XP, Windows Vista, or Mac OS X 10.3 or higher operating system, 1 GHz or faster processor; at least 512 MB of memory (RAM); at least 1 GB of available hard drive space

TCH028: DIGITAL ARTS I

Fine Art Elective Credit

Grade Level: 9, 10, 11, 12

Course Length: One semester

Materials/Software: Software: Inkscape (free download provided in course)

In this exploratory course, students learn the elements and principles of design, as well as foundational concepts of visual communication. While surveying a variety of media and art, students use image editing, animation, and digital drawing to put into practice the art principles they've learned. They explore career opportunities in the design, production, display, and presentation of digital artwork. They respond to the artwork of others and learn how to combine artistic elements to create finished pieces that effectively communicate their ideas.



TCH029: DIGITAL ARTS II

Fine Art Elective Credit

Grade Level: 9, 10, 11, 12

Course Length: One semester

Materials/Software: Inkscape (free download provided in course)

Prerequisites: TCH028: Digital Arts I (or equivalent)

Students build on the skills and concepts they learned in Digital Arts I as they develop their vocabulary of digital design elements. By the end of the course, they will have created a collection of digital art projects for their digital design portfolio.



TCH031: DIGITAL PHOTOGRAPHY I

Fine Art Elective Credit

Grade Level: 9, 10, 11, 12

Course Length: One semester

Materials: Digital camera (not supplied)

This course focuses on the basics of photography, including building an understanding of aperture, shutter speed, lighting, and composition. Students are introduced to the history of photography and basic camera functions. They use the basic techniques of composition and camera functions to build a portfolio of images, capturing people, landscapes, close-ups, and action photographs.



TCH032: DIGITAL PHOTOGRAPHY II

Fine Art Elective Credit

Grade Level: 9, 10, 11, 12

Course Length: One semester

Materials: Digital camera (not supplied)

Prerequisites: TCH032: Digital Photography I (or equivalent)

In today's world, photographs are all around us, including in advertisements, on websites, and on the well as art. Many of the images have been created by professional photographers. In this course, students learn about the various aspects of professional photography, including the ethics of the profession, and examine some of the areas that professional photographers may choose to specialize in, such as wedding photography and product photography. Students also learn about some of the most respected professional photographers in history and how to critique photographs to better understand what creates an eye-catching photograph.



TCH035: IMAGE DESIGN & EDITING

Fine Art Elective Credit

Grade Level: 9, 10, 11, 12

Course Length: One semester

Materials/Software: GIMP software (free download)

This introductory design course is for students who want to create compelling, professional-looking graphic designs and photos. Students learn the basics of composition, color, and layout through the use of hands-on projects that allow them to use their creativity while developing important foundational skills. They use GIMP software to create a graphic design portfolio with a wide variety of projects involving the mastery of technical topics such as working with layers and masks, adding special effects, and effectively using typefaces to create visual impact. The projects help students develop the skills they need to create and edit images of their own.



TCH073-PBL: VIDEO GAME DESIGN 1A & B**Grade Level:** 9, 10, 11, 12**Course Length:** Two semesters

The CodeHS video game design curriculum teaches the foundations of creating video games in JavaScript. The course utilizes a project-based learning approach. The content is fully web-based, with students writing and running code in the browser. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises, adding up to over 100 hours of hands-on programming practice in total. Students write and run JavaScript programs in the browser using the CodeHS editor.

TCH08A: CODING FUNDAMENTALS**Grade Level:** 9, 10, 11, 12**Course Length:** One semester

This course is designed as an exploration of career pathways in Computing. In this course students explore basic concepts in the broad areas within the National Career Clusters® Framework, as well as career option. Students study the concepts of digital life, how coders write programs, programming languages, the development life cycle, security, and more. They also complete a Capstone Project.

TCH102 EXPLORATION OF AI**Grade Level:** 9, 10, 11, 12**Course Length:** One semester

This course comprehensively explores artificial intelligence, covering its foundational concepts, historical evolution, and future implications. Students explore algorithms, machine learning, deep learning, and ethical considerations in AI. Through examining real-world applications and societal impacts, students gain an understanding of the interaction between humans and AI, including its potential effects on various industries and job markets.

TCH174: DIGITAL MEDIA ILLUSTRATOR**Fine Art Elective Credit****Grade Level:** 9, 10, 11, 12**Course Length:** One Semester

This course introduces students to Adobe Illustrator and prepares students to take the Adobe Professional Certification for Illustrator. Students will get an insight into what it is like working in the graphic design industry. Students will learn everything from absolute basics like navigating Illustrator to performing complex tasks like managing colors, drawing, creating illustrations, and much more. The course contains guided video tutorials, hands-on projects, and step-by-step resources that help students learn how to work in Illustrator.



TCH175: DIGITAL MEDIA PHOTOSHOP**Fine Art Elective Credit****Grade Level:** 9, 10, 11, 12**Course Length:** One Semester

This course introduces students to Adobe Photoshop and prepares students to obtain the Adobe Certified Professional Certification for Adobe Photoshop. Students will get an insight into what it is like working in the visual and graphic design industry. Over 11 modules, students will learn everything from absolute basics like navigating Photoshop to performing complex tasks like editing and retouching photos, applying filters and effects, and even creating original artwork. The course contains guided tutorials, do-it-yourself projects, and great resources that will help students practice and learn how to work in Photoshop.



TCH220-PBL: COMPUTER SCIENCE PRINCIPLES**Grade Level:** 9, 10, 11, 12**Course Length:** One semester

Computer Science Principles is a CodeHS course that introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society. The course utilizes a project-based learning approach. With a unique focus on creative problem solving and real-world applications the CodeHS Computer Science Principles course gives students the opportunity to explore several important topics of computing using their own ideas and creativity, use the power of computing to create artifacts of personal value, and develop an interest in computer science that will foster endeavors in the field.

TCH342: PYTHON PROGRAMMING A & B**Grade Level:** 10, 11, 12**Course Length:** Two semesters

The CodeHS Python Programming curriculum teaches the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem-solving skills. The course is highly visual, dynamic, and interactive, making it engaging for new coders. The content is fully web-based, with students writing and running code in the browser. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises, adding up to over 100 hours of hands-on programming practice in total.

World Language

FRENCH IA & B

Grade Level: 9, 10, 11, 12

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset and Larousse Student French-English/English-French Dictionary or equivalent is recommended

Students begin their introduction to French by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages). **Note: Students who have already completed MNVA Middle School French 2 should enroll in French II.**

FRENCH IIA & B

Grade Level: 9, 10, 11, 12

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset and Larousse Student French-English/English-French Dictionary or equivalent is recommended

Prerequisites: WLG110: French I, K¹² Middle School French 1 and 2 (or equivalents)

Students continue their study of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, and take frequent assessments where their language progression can be monitored. By semester 2, the course is conducted almost entirely in French. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

FRENCH IIIA & B

Grade Level: 9, 10, 11, 12

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset and Larousse Student French-English/English-French Dictionary or equivalent is recommended

Prerequisites: WLG210: French II (or equivalent)

Students further deepen their understanding of French by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in both formal and informal spoken and written contexts. Students should expect to be actively engaged in their own language learning, use correct vocabulary terms and phrases naturally, incorporate a wide range of grammar concepts consistently and correctly while speaking and writing, participate in conversations covering a wide range of topics, respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, read and analyze important pieces of literature, and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in French. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

AP FRENCH LANGUAGE & CULTURE A & B

Grade Level: 11, 12

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset is recommended; French/English dictionary

Prerequisites: Strong success in WLG310: French III, or success in WLG410: French IV (or equivalents), and teacher/school counselor recommendation

The AP French Language and Culture course is an advanced language course in which students are directly prepared for the AP French Language and Culture Exam. It uses as its foundation the three modes of communication: interpersonal, interpretive and presentational. The course is conducted almost exclusively in French. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. Students should expect to listen to, read, and understand a wide-variety of authentic French-language materials and sources, demonstrate proficiency in interpersonal, interpretive, and presentational communication using French, gain knowledge and understanding of the cultures of the Francophone world, use French to connect with other disciplines and expand knowledge in a wide-variety of contexts, develop insight into the nature of the French language and its culture, and use French to participate in communities at home and around the world. The AP French Language course is a college level course. **The intensity, quality, and amount of course material can be compared to that of a third-year college course.**



CIS GERMAN IA & B

Grade Level: 9, 10, 11, 12

Course Length: One high School semester credit per semester, 4 college credits per semester

Materials: A speaker and microphone are required; a headset is recommended; German Dictionary is optional



Students in CIS German will meet the same objectives as students in German 1 but will also be enrolled through Huskies in the High School (HHS) at St Cloud State University. HHS at St. Cloud State University is a NACEP accredited program that allows high school student to earn dual credit (high school and postsecondary credit) in their high school classrooms. HHS students learn college-level skills in critical thinking, writing, research and course management that help with the transition to college. More general information can be found in the Huskies in the High School Student Handbook located here: <https://www.stcloudstate.edu/huskiesintheHS/handbooks/default.aspx> Students interested in dual credit should register through this course code.

CIS GERMAN IIA & B

Grade Level: 9, 10, 11, 12

Course Length: One high school semester credit per semester, 4 college credits per FULL YEAR

Materials: A speaker and microphone are required; a headset is recommended; German Dictionary is optional

Prerequisites: German I; CIS German I; or equivalent experience and approval from German teacher



Students in CIS German will meet the same objectives as students in German 2 but will also be enrolled through Huskies in the High School (HHS) at St Cloud State University. Students must enroll for the entire year to complete the GER201 course for college credit. HHS at St. Cloud State University is a NACEP accredited program that allows high school student to earn dual credit (high school and postsecondary credit) in their high school classrooms. HHS students learn college-level skills in critical thinking, writing, research and course management that help with the transition to college. More general information can be found in the Huskies in the High School Student Handbook located here: <https://www.stcloudstate.edu/huskiesintheHS/handbooks/default.aspx> Students interested in dual credit should register through this course code.

GERMAN IA & B

Grade Level: 9, 10, 11, 12

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset is recommended; Larousse German Dictionary or equivalent is recommended

Students begin their introduction to German by focusing on the five key areas of world language study: listening, speaking, reading, writing and culture. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; become familiar with common vocabulary terms and phrases; comprehend a wide range of grammar patterns; participate in simple conversations; respond appropriately to basic conversational prompts; analyze and compare cultural practices, products, and perspectives of various German-speaking countries; and take frequent assessments by which their language progression can be monitored.

GERMAN IIA & B

Grade Level: 9, 10, 11, 12

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset is recommended; Larousse German Dictionary or equivalent is recommended

Prerequisites: WLG120: German I, K¹² Middle School German 1 and 2 (or equivalents)

Students continue their study of German by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; understand common vocabulary terms and phrases; use a wide range of grammar patterns in their speaking and writing; participate in conversations; respond appropriately to conversational prompts; analyze and compare cultural practices, products, and perspectives of various German speaking countries; and take frequent assessments by which their language progression can be monitored.

WLG100: SPANISH IA & B**Grade Level:** 9, 10, 11, 12**Course Length:** Two semesters**Materials:** A speaker and microphone are necessary; a headset is recommended; Vox Everyday Spanish and English Dictionary or equivalent is recommended

Students begin their introduction to Spanish by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages). **Note: Students who have already completed MNVA Middle School Spanish 1 and 2 should enroll in Spanish II.**

WLG200: SPANISH IIA & B**Grade Level:** 9, 10, 11, 12**Course Length:** Two semesters**Materials:** A speaker and microphone are necessary; a headset is recommended; Vox Everyday Spanish and English Dictionary or equivalent is recommended**Prerequisites:** WLG100: Spanish I; K¹² Middle School Spanish 1 and 2 (or equivalents)

Students continue their study of Spanish by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, and take frequent assessments where their language progression can be monitored. By Semester 2, the course is conducted almost entirely in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages)

WLG300: SPANISH IIIA & B**Grade Level:** 9, 10, 11, 12**Course Length:** Two semesters**Materials:** A speaker and microphone are necessary; a headset is recommended; Vox Everyday Spanish and English Dictionary or equivalent is recommended**Prerequisites:** WLG200: Spanish II (or equivalent)

Students further deepen their understanding of Spanish by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in more formal spoken and written contexts. Students should expect to be actively engaged in their own language learning, use correct vocabulary terms and phrases naturally, incorporate a wide range of grammar concepts consistently and correctly while speaking and writing, participate in conversations covering a wide range of topics and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, read and analyze important pieces of Hispanic literature, and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

WLG500: AP SPANISH LANGUAGE & CULTURE A & B**Grade Level:** 11, 12**Course Length:** Two semesters**Materials:** A speaker and microphone are necessary; a headset is recommended; Spanish/English dictionary**Prerequisites:** 4 years of Spanish (or equivalents) at a non K12 school, and teacher/school counselor recommendation.

The AP Spanish Language and Culture course is an advanced language course in which students acquire proficiencies that expand their cognitive, analytical and communicative skills. The AP Spanish Language and Culture course prepares students for the AP Spanish Language and Culture exam. It uses as its foundation the three modes of communication (Interpersonal, Interpretive and Presentational) as defined in the Standards for Foreign Language Learning in the 21st Century. The course is designed as an immersion experience and is conducted almost exclusively in Spanish. In addition, all student work, practices, projects, participation, and assessments are in Spanish. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. In addition, students participate in a forum where they are able to share their own opinions and comments about various topics and comment on other students' posts. The course also makes great use of the Internet for updated and current material.

Credit Recovery

Credit recovery options are available for some of MNVA's core subject requirements. Students **SHOULD NOT** sign up for these courses, they will be assigned with administrator and/or counselor approval. Please note, credit recovery options may vary year to year.

ENG106: ENGLISH 9A & B (CREDIT RECOVERY)

Grade Level: 9, 10, 11, 12

Course Length: Two semesters

Prerequisite: Student previously took the course or its equivalent but did not receive credit; and admin/school counselor recommendation

The English 9 credit recovery course is a flexible online course designed for students who need to retake the course, catch up to classmates, or earn credits necessary to graduate on time. The course includes engaging and interactive instruction about reading, writing, speaking and listening, and language, with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to grade 9. Examples of works studied include "The Black Cat", "Ain't I a Woman?", "Nothing Gold to Stay", and the novel *The Alchemist*. Students also learn about the formal writing process as they write a literary analysis essay.

ENG206: ENGLISH 10A & B (CREDIT RECOVERY)

Grade Level: 9, 10, 11, 12

Course Length: Two semesters

Prerequisite: Student previously took the course or its equivalent but did not receive credit; and admin/school counselor recommendation

The English 10 credit recovery course is a flexible online course designed for students who need to retake the course, catch up to classmates, or earn credits necessary to graduate on time. The course includes engaging and interactive instruction about reading, writing, speaking and listening, and language, with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to grade 10. Examples of work studies include "The Pit and the Pendulum", poems by Lord Byron and Ezra Pound, Nixon's resignation speech, and the memoir *Night*. Students also learn about the formal writing process as they write a literary analysis essay.

ENG306: AMERICAN LITERATURE A & B (CREDIT RECOVERY)

Grade Level: 9, 10, 11, 12

Course Length: Two semesters

Prerequisite: Student previously took the course or its equivalent but did not receive credit; and admin/school counselor recommendation

In this course, students read and analyze works of American literature from colonial to contemporary times, including poetry, short stories, novels, drama, and nonfiction. The literary works provide opportunities for critical writing. Students develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

ENG406: BRITISH & WORLD LITERATURE A & B (CREDIT RECOVERY)

Grade Level: 9, 10, 11, 12

Course Length: Two semesters

Prerequisite: Student previously took the course or its equivalent but did not receive credit; and admin/school counselor recommendation

Students read selections from British and world literature in a loosely organized chronological framework. They analyze the themes, styles, and structures of these texts, and make thematic connections among diverse authors, periods, and settings. Students complete guided and independent writing assignments that refine their analytical skills. Students also practice test-taking skills for standardized assessments in critical reading and writing. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

HST106: WORLD HISTORY A & B (CREDIT RECOVERY)

Grade Level: 9, 10, 11, 12

Course Length: Two semesters

Prerequisite: Student previously took the course or its equivalent but did not receive credit; and admin/school counselor recommendation

In this survey of world history from prehistoric to modern times, students focus on the key developments and events that have shaped civilization across time. The course is organized chronologically and, within broad eras, regionally. Lessons address developments in religion, philosophy, the arts, science and technology, and political history. The course also introduces geography concepts and skills within the context of the historical narrative. Online lessons and assessments complement World History: Our Human Story, a textbook written and published by K12. Students analyze primary sources and maps, create timelines, and complete other projects – practicing historical thinking and writing skills as they explore the broad themes and big ideas of human history. Diagnostic tests assess students' current knowledge and generate individualized student plans, so students can focus on topics that need review.

HST216: GEOGRAPHY CR (CREDIT RECOVERY)

Grade Level: 9, 10, 11, 12**Course Length:** Two semesters**Prerequisite:** Student previously took the course or its equivalent but did not receive credit; and admin/school counselor recommendation

This course examines a broad range of geographical perspectives covering all of the major regions of the world. Students clearly see the similarities and differences among the regions as they explore the locations and physical characteristics, including absolute and relative location, climate, and significant geographical features. They look at each region from cultural, economic, and political perspectives, and closely examine the human impact on each region. Students take diagnostic tests that assess their current knowledge and generate individualized study plans, so students can focus on topics that need review.

HST306: US HISTORY A & B (CREDIT RECOVERY)

Grade Level: 9, 10, 11, 12**Course Length:** Two semesters**Prerequisite:** Student previously took the course or its equivalent but did not receive credit; and admin/school counselor recommendation

This course provides students with a comprehensive view of American history from the first migrations of nomadic people to North American to recent events. Online lessons help students organize their study, explore topics in depth, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating time lines, completing written assignments, and conducting independent research. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

HST406: US GOVERNMENT & POLITICS (CREDIT RECOVERY)

Grade Level: 9, 10, 11, 12**Course Length:** Two semesters**Prerequisite:** Student previously took the course or its equivalent but did not receive credit; and admin/school counselor recommendation

This course studies the history, organization, and functions of the United States government. Beginning with the Declaration of Independence and continuing through to the present day, students explore the relationship between individual Americans and our governing bodies. Students take a close look at the political culture of our country, and gain insight into the challenges faced by citizens, elected government officials, political activists, and others. Students also learn about the roles of political parties, interest groups, the media, and the Supreme Court. They discuss their own views on current political issues. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

HST416: US & GLOBAL ECONOMICS (CREDIT RECOVERY)

Grade Level: 9, 10, 11, 12**Course Length:** Two semesters**Prerequisite:** Student previously took the course or its equivalent but did not receive credit; and admin/school counselor recommendation

In this course on economic principles, students explore choices they face as producers, consumers, investors, and taxpayers. Students apply what they learn to real-world simulation problems. Topics of study include markets from historic and contemporary perspectives; supply and demand; theories of early economic philosophers such as Adam Smith and David Ricardo; theories of value; money (what it is, how evolved, the role of banks, investment houses, and the Federal Reserve; Keynesian economics; how capitalism functions, focusing on productivity, wages, investment, and growth; issues of capitalism, such as unemployment, inflation, and the national debt; and a survey of markets in such areas as China, Europe, and the Middle East.

MTH206: GEOMETRY A & B (CREDIT RECOVERY)

Grade Level: 9, 10, 11, 12**Course Length:** Two semesters**Prerequisite:** Student previously took the course or its equivalent but did not receive credit; and admin/school counselor recommendation

This Geometry course combines mathematical reasoning and proof with an extension of students' algebraic development in geometric contexts. The course focuses primarily on two-dimensional shapes in the Euclidean plane. Starting with segments and angles, students develop understanding of and work through problems and proofs involving congruence, similarity, parallel and perpendicular lines, quadrilaterals, and circles. Toward the end of the course, time is also spent extending the treatment of triangles into basic trigonometry concepts and providing students with a detailed taste of analytic geometry by developing and using the equation of circle in the coordinate plane.

MTH306: ALGEBRA IIA & B (CREDIT RECOVERY)

Grade Level: 9, 10, 11, 12**Course Length:** Two semesters**Prerequisite:** Student previously took the course or its equivalent but did not receive credit; and admin/school counselor recommendation

The Algebra 2 course builds on the mathematical proficiency and reasoning skills developed in Algebra 1 and Geometry to lead students into advanced algebraic work. The course emphasizes the concept of functions throughout. Sandwiched between short forays into probability and statistics is a thorough treatment of linear, quadratic, higher-degree polynomial, exponential, logarithmic, and trigonometric functions, with emphasis on analysis, problem solving, and graphing. Toward the end of the course, an introduction to sequences and series is presented in preparation for future work in mathematics.

OTH016: HEALTH CR (CREDIT RECOVERY)

Grade Level: 9, 10, 11, 12**Course Length:** Two semesters**Prerequisite:** Student previously took the course or its equivalent but did not receive credit; and admin/school counselor recommendation

In this Health course, students develop the knowledge and skills they need to make healthy decisions that allow them to stay active, safe, and informed. The course presents the components of a healthy lifestyle and strategies for making healthy choices. Instructional material introduces students to the concepts of mental, emotional, social, consumer, and physical health. Students have opportunities to apply their value systems to decisions concerning CPR skills and develop an awareness of the dangers of drug, alcohol, and tobacco use. Students develop communication skills in this one-semester course that allow them to demonstrate healthy choices with respect for self, family, and others.

OTH022: PHYSICAL FITNESS CR (CREDIT RECOVERY)

Grade Level: 9, 10, 11, 12**Course Length:** Two semesters**Prerequisite:** Student previously took the course or its equivalent but did not receive credit; and admin/school counselor recommendation

This credit recovery course combines online instructional guidance with student participation in weekly cardiovascular, aerobic, muscle-toning, and other activities. Students fulfill course requirements by keeping a log of their physical activity and submitting videos of fitness and sports skills. The course promotes the value of lifetime physical activity and includes instruction in injury prevention, nutrition and diet, and stress management.

SCI116: EARTH SCIENCE A & B (CREDIT RECOVERY)

Grade Level: 9, 10, 11, 12**Course Length:** Two semesters**Prerequisite:** Student previously took the course or its equivalent but did not receive credit; and admin/school counselor recommendation

This course provides students with a comprehensive earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists of in-depth online lessons, collaborative activities, virtual laboratories, and hands-on laboratories students can conduct at home. The course prepares students for further studies in geology, meteorology, oceanography, and astronomy courses, and gives them practical experience in implementing scientific methods. Diagnostic tests assess students' current knowledge and generate individualized study plans so students can focus on topics that need review.

SCI206: BIOLOGY A & B (CREDIT RECOVERY)

Grade Level: 9, 10, 11, 12**Course Length:** Two semesters**Prerequisite:** Student previously took the course or its equivalent but did not receive credit; and admin/school counselor recommendation

Topics include the scientific method, characteristics of living things, energy, organic compounds, and water. Students review the structure and function of living things, the cell, genetics, DNA, RNA, and proteins. They review evolution and natural selection; digestive, respiratory, nervous, reproductive, and muscular systems; and ecology and the environment. Diagnostic tests assess students' current knowledge and generate individualized student plans, so students can focus on topics that need review.

SCI306: CHEMISTRY A & B (CREDIT RECOVERY)

Grade Level: 9, 10, 11, 12**Course Length:** Two semesters**Prerequisite:** Student previously took the course or its equivalent but did not receive credit; and admin/school counselor recommendation

This comprehensive course gives students a solid basis to move on to future studies. The course provides an in-depth survey of all key areas, including atomic structure, chemical bonding and reactions, solutions, stoichiometry, thermochemistry, organic chemistry, and nuclear chemistry. The course includes direct online instruction and laboratories. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

CAREER & COLLEGE PREP COURSE SUGGESTIONS BY PATHWAY

The charts listed below lay out the courses suggested for each career field and pathways. It is important to note that not all courses are offered each semester/year. If you have questions about course offerings, please reach out to the Career & College Prep staff for more information at careerprep@mnva.org.

AGRICULTURE SCIENCE

| Pathway: Agriscience |
|--|
| AGR020 Intro to Forestry & Natural Resources |
| AGR040 Intro to Entergy & Natural Resources Tech |
| AGR105 Agriscience 1 |
| AGR111 Agriscience 2 |

| Pathway: Veterinary Science |
|-------------------------------------|
| CS Small Animal Care and Management |
| OTH033 Veterinary Science |

BUSINESS & MARKETING

| Pathway: Entrepreneurship |
|----------------------------|
| TCH172 Software Apps Word |
| TCH177 Software Apps Excel |
| BUS045 Entrepreneurship 1 |
| BUS055 Entrepreneurship 2 |

| Pathway: General Marketing |
|---|
| BUS065 Marketing 1 |
| BUS075 Marketing 2 |
| BUS090 Sports & Entertainment Marketing 1 |
| BUS091 Sports & Entertainment Marketing 2 |
| BUS110 Social Media Marketing |
| TCH172 Software Apps Word (optional) |
| TCH177 Software Apps Excel (optional) |

| Pathway: Business Finance |
|--|
| BUS113 Accounting 1 |
| BUS114 Accounting 2 |
| HST350 Foundations of Financial Literacy |
| TCH172 Software Apps Word |
| TCH177 Software Apps Excel |

FAMILY & CONSUMER SCIENCE

| Pathway: Education |
|------------------------------------|
| OTH200 Intro to Education |
| OTH161 Early Childhood Education 1 |
| OTH162 Early Childhood Education 2 |
| HST020 Psychology |

| Pathway: Restaurant Services |
|--------------------------------|
| BUS120 Hospitality and Tourism |
| OTH171 Culinary Arts 1 |
| OTH172 Culinary Arts 2 |
| OTH080 Nutrition and Wellness |

| Pathway: Design |
|----------------------------------|
| OTH181 Fashion Design |
| OTH182 Interior Design |
| TCH174 Digital Media Illustrator |
| TCH175 Digital Media Photoshop |

LAW & ORDER

| Pathway: Forensic Criminal Justice |
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| LAW110 Careers in Criminal Justice 1 |
| LAW111 Careers in Criminal Justice 2 |
| OTH039 Criminology |
| SCI030 Forensic Science |

HEALTH & HUMAN SERVICES

Pathway: Healthcare Careers

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| CAR019 Healthcare Explorations |
| Emergency Medical Responder |
| HLT213 Medical Terminology 1 |
| HLT214 Medical Terminology 2 |
| SCI330A/B Anatomy and Physiology |

MANUFACTURING & TRADES

Pathway: Heavy Equipment Operating Engineers

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| CAR022: Construction Explorations |
| MFG010: Basic Grade & Construction Math |
| MFG201: Basic Construction Equipment Fundamentals |
| MFG202: Basic Maintenance of Mobile Equipment |

TECHNOLOGY & DESIGN

Pathway: Programming

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| TCH08A Coding Fundamentals |
| TCH181 Introduction to Artificial Intelligence |
| TCH220 Principles of Computer Science |
| TCH342A/B Python Programming |

Pathway: Video Game Design

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| TCH08A Coding Fundamentals |
| TCH220 Principles of Computer Science |
| TCH073A/B Video Game Design |
| TCH221 Microsoft Excel (optional) |

Pathway: Digital Photography

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| TCH031 Digital Photography 1 |
| TCH032 Digital Photography 2 |
| TCH035 Image Design & Editing |
| TCH175 Digital Media Photoshop |

Pathway: Digital Arts

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| TCH028 Digital Arts 1 |
| TCH029 Digital Arts 2 |
| TCH035 Image Design & Editing |
| TCH174 Digital Media Illustrator |