



23-24

**Mead High School
Panther Focus Course Guide**



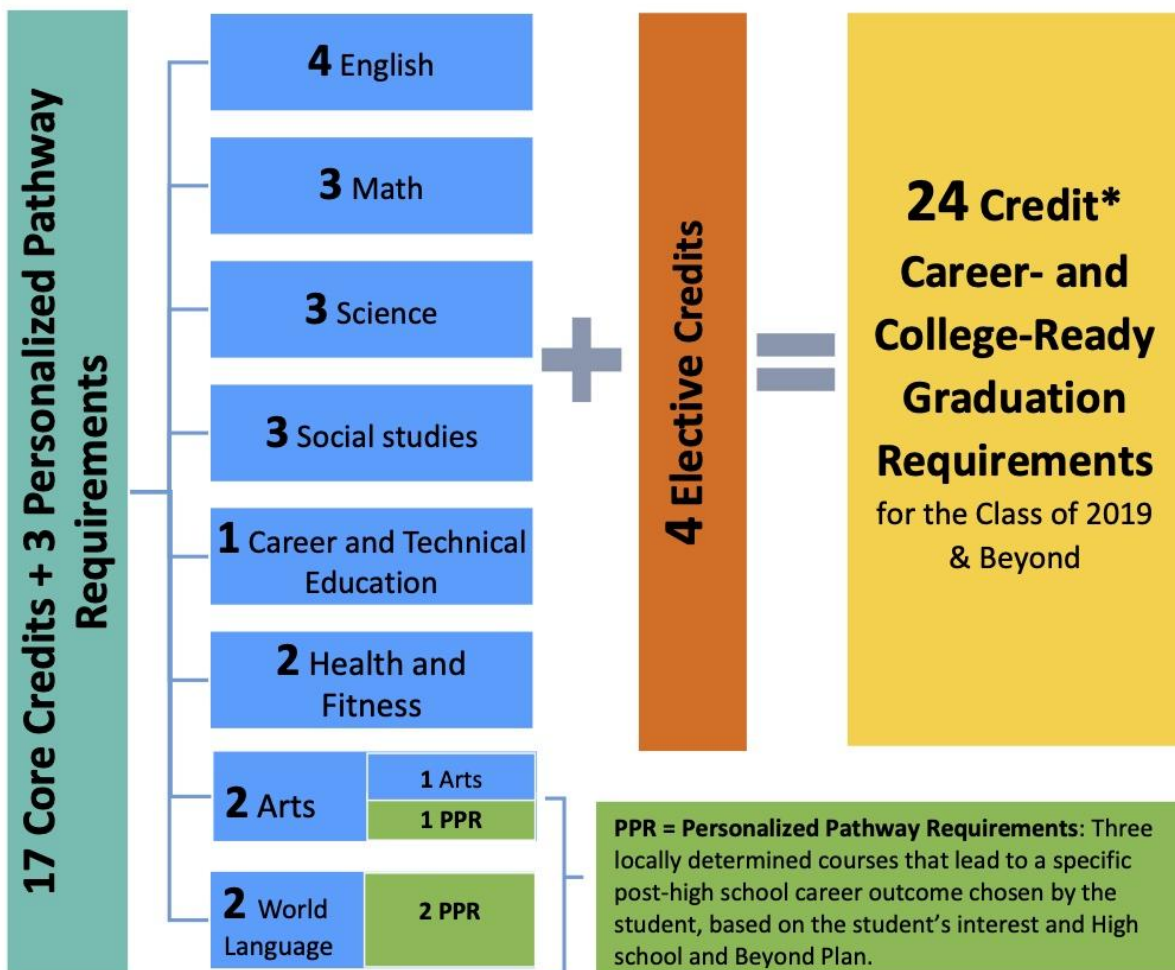
Table of Contents

<i>Planning Documents</i>	<i>pages 3-9</i>
<i><u>Art</u></i>	<i>pages 10 - 11</i>
<i><u>Career and Technical Education</u></i>	<i>pages 12 - 16</i>
<i><u>Mead Design Studio</u></i>	<i>pages 17</i>
<i><u>Electives</u></i>	<i>pages 18 - 20</i>
<i><u>English</u></i>	<i>pages 21- 25</i>
<i><u>Health and Fitness</u></i>	<i>pages 26- 27</i>
<i><u>Math</u></i>	<i>pages 28 - 32</i>
<i><u>Performing Arts</u></i>	<i>pages 33 - 38</i>
<i><u>PLTW - Engineering Academy</u></i>	<i>pages 39 – 40</i>
<i><u>PLTW - Biomedical Sciences Academy</u></i>	<i>pages 40 - 42</i>
<i><u>Science</u></i>	<i>pages 43 – 47</i>
<i><u>Social Studies</u></i>	<i>pages 48 - 50</i>
<i><u>Special Education</u></i>	<i>pages 51 - 52</i>
<i><u>World Languages</u></i>	<i>pages 53 - 56</i>

24-Credit Career- and College-Ready Graduation Requirements:

How Do the 24-Credit Graduation Requirements Add Up?

$$17 + 3 + 4 = 24$$

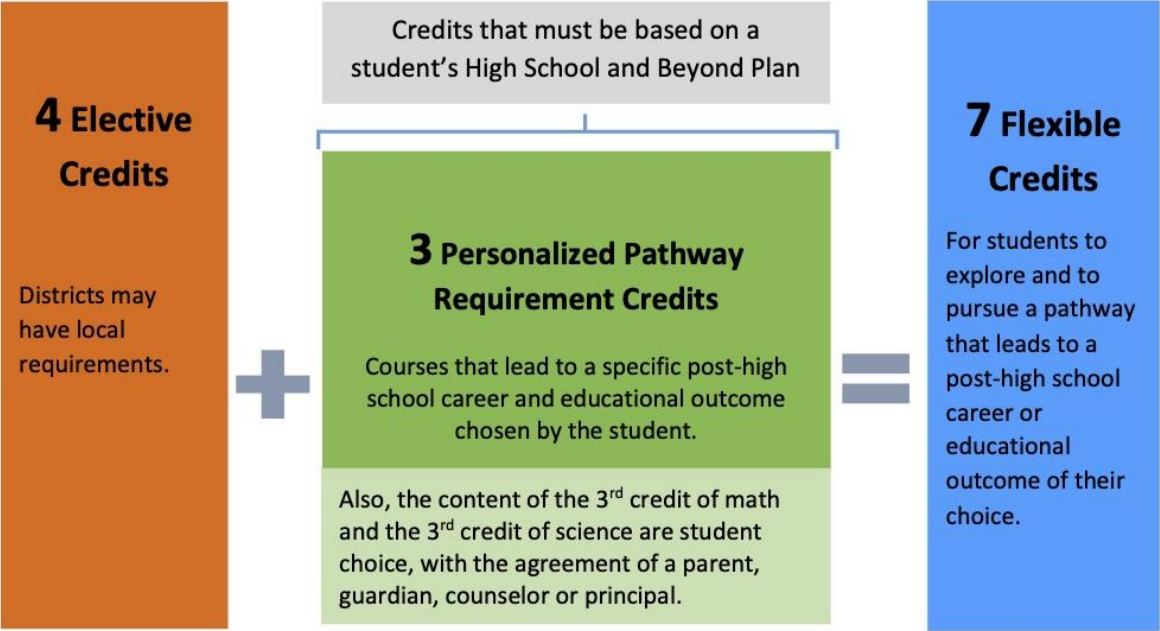


*For individual students, 2 credits may be waived: A district must adopt a written policy to waive up to 2 credits of the 24, based on the student's 'unusual circumstances.'

24-Credit Career- and College-Ready Graduation Requirements:

How Much Student Choice?

4 + 3 = 7



Career and Technical Education courses determined to be equivalent to core requirements and competency-based credits provide additional flexibility for students.

24-Credit Career- and College-Ready Graduation Requirements:

What are Personalized Pathway Requirements (PPR)?



High School and Beyond Plan (HSBP)

Plan for attaining post-secondary career and education goals, created in collaboration between the student, parent/guardian, and high school staff.



Personalized Pathway

Locally determined high school course work necessary to prepare for the particular career and education goal chosen by the student.



Personalized Pathway Requirements (PPR)

The three credits that a student must specify in their HSBP that meet both graduation requirements and helps to prepare for the particular career and education goal chosen by the student.

College Entrance Requirements

FOUR-YEAR PUBLIC AND INDEPENDENT COLLEGES

Most of the colleges in Washington and over half in the United States are classified as independent colleges. This means that even though they are approved and accredited to grant diplomas, they vary greatly on what they teach and what they require for entrance. **Each college sets its own standards for admission. Students are responsible for knowing and meeting guidelines for the colleges of their choice.**

Four-year colleges take into consideration a variety of factors when considering students for admission. These factors include, but are not limited to, high school course of study, GPA, ACT/SAT scores, essays, and extracurricular and community service activities. Students are encouraged to take a strong curriculum each year in order to be prepared for college coursework.

Four-year public colleges in the state of Washington (University of Washington, Washington State University, The Evergreen State College, Eastern Washington University, Central Washington University, and Western Washington) have agreed to common entrance requirements. Students will be required to earn a minimum of three **College Academic Distribution Requirements (CADR)** credits during each year of high school, meeting the minimum requirements here:

- English.....4 credits
- Math*(through Algebra 2B).....3 credits
- Science, lab-based**.....3 credits
- Social Science/History.....3 credits
- Arts***.....1 credit
- Foreign Language (single world lang).....2 credits

* Public four-year colleges in Washington State also require one year of a quantitative course senior year. This can be achieved by passing a fourth year of math, an algebra-based science senior year, or the required third year of math during the senior year.

** 1 credit must be earned in an algebra-based science course. • 1 credit must be earned in biology, chemistry, or physics. • 1 additional science credit – does not need to be lab-based

High school students are strongly encouraged to exceed both the CADR and high school graduation requirements to improve their potential for success. Individual institutions may have more rigorous standards or may have different processes to consider individual exceptions. **Prospective students should obtain the admission information provided by the institutions.**

NCAA REQUIREMENTS

If you want to play sports at an NCAA Division I or II school, start by registering with the NCAA Eligibility Center at ncaa.org during your sophomore year. NCAA schools require college-bound student-athletes to build a foundation of high school courses to prepare them for the college classroom. Not all high school classes count as NCAA core classes. Visit the NCAA eligibility center for a full list of MHS approved core courses. For additional information, see your counselor.

Note: Student athletes need to register for the NCAA Clearinghouse before the end of their junior year. **Students are responsible for knowing and meeting the NCAA requirements for college admission and participation in college sports.**

COMMUNITY COLLEGES

Community colleges in Washington and Idaho have an open enrollment policy. This means that in most circumstances if a student has a high school diploma or a GED, the college will admit him or her. Applications for all community colleges in the state of Washington and for North Idaho College in Coeur d'Alene are available online.

However, just because a student is admitted to the college doesn't mean that he or she can take college level courses or can be admitted to a particular technical program. Various specialty programs within the college may require certain courses or test scores for entrance.

All students entering the community colleges must take a test for placement purposes. Those students who do not pass the test must take remedial courses that do not count toward a degree. Counselors recommend students take as much math and English as possible in order to prepare for college-level work.



Dual Credit Options

Get a head start on your future and earn credit for both high school and college simultaneously.

Advanced Placement (AP)

This program allows students to take college-level courses, taught by high school teachers, at the high school. Courses are offered in 10th–12th grades. Upon completion of the course, students take a standardized exam. Scores from the exams are considered by colleges, and varying levels of credit are awarded. **Fees:** Students do not pay tuition but do pay fees for the final standardized exams. Fee waivers are available for lower-income students.

Mead High School - AP Course Options:

AP World History	AP Language & Composition	AP Biology
AP United States History	AP Literature	AP Chemistry
AP Government & Politics	AP Calculus AB	AP Physics
AP Psychology	AP Calculus BC	AP Environmental Science
AP Computer Science		

Additional AP Resources:

- [AP General Information](#)
- [Washington State College AP Lookup Tool](#)

Running Start

Washington's Running Start program gives 11th and 12th grade students the opportunity to take college courses at the Community Colleges of Spokane and Eastern Washington University. Running Start courses are regular college courses offered on the college campus.

Fees: Students do not pay tuition; however, they do pay for textbooks, fees, and transportation (which can be upwards of \$500 per quarter).

Resources: [SCC Running Start](#) [SFCC Running Start](#) [EWU Running Start](#)

Running Start to Careers

The Mead School District is excited about our partnership with the Community Colleges of Spokane and a dual credit offering called "Running Start for Careers." We know there is a need for skilled labor in almost every vocational field and this option allows juniors and/or seniors to start their training at the college while simultaneously earning high school credits toward graduation. Fees: Students do not pay tuition; however, they do pay for textbooks, fees, and transportation.

Resources: [Running Start to Careers Program Options](#) [Running Start to Careers Initiative](#)

The NEWTECH Skills Center provides specialized, high quality professional/technical training as an extension of area high schools. NEWTECH Skills Center programs will assist students in developing skill competencies necessary for successful transition into post-high school training and educational programs or direct employment. All Career Major Specialty Areas will assist students in securing work-based learning opportunities, and many NEWTECH Skills Center programs allow students to earn advanced standing in Community College programs.

NEWTECH Skills Center students attend three class periods per day at the center and complete the remainder of the day at their home high school. Students must be a junior or senior to attend and have acquired a minimum of six (6) credits. NEWTECH Skills Center Programs can be found at: www.newtechskillscenter.com.

College In the High School

Offers college-level academic courses to high school students. Courses are taught at the high school, by high school teachers with approval to teach the course for college credit, with college curriculum, college textbooks, and oversight by college faculty and staff. Mead High School's Dual Enrollment Program is a great way for our students to get a jump start on their college education. All Dual Enrollment students will take these courses here instead of at the community college or university. **Fees:** Students pay tuition when wanting to earn college credit.

- There is no fee for students to enroll in a CHS or co-delivered dual credit course that includes CHS to earn only high school credit. Fees apply for students who choose to enroll in a CHS course to earn both high school and college credit. Paying for the college credit automatically starts an official college transcript with the institution offering the course that will include the student's performance, and that college credit earned may count as elective or academic credit depending on the receiving college's transfer credit policies.

MHS Course	College/University	Credits/Course
Spanish 3	Eastern Washington	5 Credits - SN103
Civil Engineering <i>(3rd Year Engineering Course)</i>	Eastern Washington	5 Credits - METC110
Math 107	Eastern Washington	5 Credits - MTHD107
Engineering Design	Eastern Washington	4 Credits - MENG217

<i>(4th year Engineering Course)</i>		
Project Lead the Way- Engineering <i>(completion of 2 of the year course sequence)</i>	Missouri Science & Technology	3 Credits MECH ENG 1720
Biomedical Innovation <i>(4th year Biomed course)</i>	Spokane Community College	5 Credits - HED125 *No fee
Project Lead the Way - Biomedical Sciences <i>(completion of 4 year course sequence)</i>	Stevenson University Missouri Science & Technology	Variety of credit options based on requirements, timelines, cost
Advanced Marketing	Spokane Falls Community College	5 Credits - MMG211 Marketing
Entrepreneurship - Creativity and Innovation	Spokane Falls Community College	5 Credits - BUS 101 Intro to Business
Social Media Marketing, Intro to Marketing	Spokane Falls Community College	5 Credits - MMG212 Social Media Marketing

Four-Year Planning Document

Taking the time to craft a four-year course of study is highly recommended for all students at Mead High School. Listed below is a sample four-year plan for a student hoping to gain acceptance to a four-year college upon graduation.

Ninth-Grade Year

Semester One	Semester Two
English	English
Science	Science
Math	Math
Art	PATH
Health & Fitness	Health & Fitness
Elective	Elective

Tenth-Grade Year

Semester One	Semester Two
English	English
World History or AP World History	World History or AP World History
Math	Math
Science	Science
World Language	World Language
CTE	CTE

Eleventh-Grade Year

Semester One	Semester Two
English	English
US History or AP US History	US History or AP US History
Math	Math
Science	Science
World Language	World Language
Art	Elective

Twelfth-Grade Year

Semester One

Semester Two

English	English
Citizenship or AP US Government	Citizenship or AP US Government
Math	Math
Science	Science
Art	Art
Elective	Elective

Art

Art [[Promo Video](#)]

Courses Offered

<ul style="list-style-type: none">● Beginning Art● Intermediate Art● Advanced Art● Jewelry & Metals	<ul style="list-style-type: none">● Pottery● Digital Media● Advanced Digital Photography
--	---

Beginning Art

9, 10, 11, 12 grade (Semester)

Students are introduced to creating and communicating through a variety of 2-D and 3-D art media, as well as understanding and communicating about artworks. To build creative and critical thinking in the language of art (art elements and design principles), different materials and artistic processes will be explored. This course fulfills 1 art requirement. \$15.00 lab fee.

Intermediate Art

9, 10, 11, 12 grade (Semester)

Students will expand and refine their foundational visual art skills and understandings in several different 2-D and 3-D media. By thinking, creating, seeing, and communicating as artists, students will express their own ideas, explore and experiment with new approaches and media, begin to develop their own artistic style, and respond by analyzing and interpreting the artistic work of others.

This course fulfills 1 art requirement. \$15.00 lab fee. (Prerequisite Course: Beginning Art)

Advanced Art

10, 11, 12 grade (Semester)

This course is designed for the student with a very strong interest in an area of visual arts. Students will apply and advance their creative and critical thinking and innovation to solve self-designed projects. Students will

advance their skills in analyzing, interpreting, critiquing and evaluating artistic works. Showing focused involvement in the art making process, students will create multiple works of art based on personally meaningful themes, ideas, or concepts. This class may be taken more than once for credit. This course fulfills 1 art requirement. \$15.00 lab fee. (Prerequisite Course: Intermediate Art)

Pottery

10, 11, 12 grade (Semester)

Students will learn the basic skills of hand built and wheel-thrown pottery and sculpture. A variety of decorating and firing techniques will be taught. This class may be taken more than once for credit.

This course fulfills 1 art requirement. Fee \$30.00

Jewelry and Metals

10, 11, 12 grade (Semester)

Students will explore the basics of small-scale metalsmithing techniques by engaging in the artistic process and design problem solving. A variety of techniques will be learned, such as soldering, riveting, polishing and texturing techniques. This class may be taken more than once, with advanced project offerings.

*Equipment safety tests must be passed in the first weeks of the semester to move forward in this class.

This course fulfills 1 art requirement. Fee \$30.00

Digital Media

10, 11, 12 (Semester)

Prerequisite: Beginning Art

Students will explore the use of computer applications to create a basic composition that adheres to the elements and principles of design. This course will cover computer applications such as: Adobe Software. Additionally, the course will incorporate the use of digital media for visual communication. The course curriculum will include individual class presentations, sharing of design ideas, creating individualized photographs, and group projects. The current Canon T models will be the cameras used by the beginning students. **This course qualifies for art or CTE.**

Advanced Digital Photography

Prerequisite: C grade or better in Digital Media

10, 11, 12 (Semester)

In this course the student will build upon their knowledge of digital photography through hands-on experience with lighting, flash, camera lenses, and Adobe Photoshop and Lightroom. The student can only take this course one time. **This course qualifies for art or CTE.**

Acting and Advanced Acting – See Performing Arts

Civil Engineering and Architecture – See **Project Lead The Way** – Engineering Academy

Stagecraft – See Electives

Career and Technical Education (CTE)

<ul style="list-style-type: none">● Intro to Programming● AP Computer Science Principles● Graphic Design● Beginning Sports Medicine● Advanced Sports Medicine● Inventioneering● Entrepreneurship● Advanced Entrepreneurship● Fire Science● Careers in Education	<ul style="list-style-type: none">● Intro to Marketing● International Marketing Student Store● Food and Wellness● Pro Start I● Pro Start II● Career Choices● Work Based Learning● Video Editing● Financial Literacy
--	--

Entrepreneurship - Creativity/Innovation

9, 10, 11, 12 (Semester)

This course introduces the student to entrepreneurial thought and the process for innovation/idea generation. Students begin to develop their own entrepreneurial mindset and the business skills essential to the entrepreneurial experience. Students are challenged to think creatively about forming their own business or designing a product to meet customer needs and/or address unmet needs in the commercial, social and global economy. Through experiential learning, case studies, business writing assignments and creative thinking exercises, students will develop a disciplined thought process for starting and running their own enterprise and begin the development of a business plan. You will also have the chance to join [DECA](#), a business and marketing club, and compete, plus do other club activities throughout the year. **This course qualifies for CTE.**

Advanced Entrepreneurship - Marketing/Finance

9, 10, 11, 12 (Semester)

Prerequisite: Entrepreneurship

This course continues with the Business Venture and Plan Development started in the Entrepreneurship course. The student will be able to evaluate their business concept and write a business plan for their entrepreneurial venture. In the process of doing so, the student will be able to assess the strengths and weaknesses of their business concept; identify operational requirements; collect and organize market research data into a marketing plan and prepare basic financial projections for their venture. In addition, students will be able to identify and evaluate various resources available for funding the entrepreneurial venture. An opportunity will be provided for students to present their Business Plan at a selected high school division competition. You will also have the opportunity to join [DECA](#) **This course qualifies for CTE.**

Introduction to Marketing

10, 11, 12 (Semester)

Prerequisite: Entrepreneurship

International Marketing Student Store A & B

11, 12 (Semester)

The purpose of this class is to help prepare students for the retail market by being involved in the student store. Students will work in the student store and take leadership management positions, work with business product vendors and manage individual projects including advertising/promotions, selling, merchandising, human relations, entrepreneurship, and accounting. It is required to be in [DECA](#) **for one year** to work in the student store. This also requires Mr. Butler's permission to take this class. **This course qualifies for CTE.**

Financial Literacy

12 (Semester)

Financial literacy is a Senior only opt-out course specifically focused on the personal side of finance. In this course we explore - career exploration and prep, post secondary pursuits and options, as well as cost for college, consumer behavior/finance, checking accounts, savings, investing, credit, taxes, insurance options, and budgeting. The overall goal for the course is to develop a definition of great money management based on personal values and goals. Students will learn the basics of how to manage their finances well so they can start their lives out with good financial direction and save for their future.

CULINARY ARTS

Food and Wellness

9, 10, 11, 12, (Semester)

This comprehensive food and nutrition course will enable students to learn the personal advantages of eating healthy and will discover how they can establish good nutritional practices that will benefit them throughout their lives. The course will serve to broaden students' understanding of the impact food has on their lives, the creativity, presentation and aesthetics, and the career opportunities in the food and nutrition profession. Topics covered will include kitchen safety/sanitation, food preparation, healthy choices, and consumer education. Students will participate in "hands on" experiences cooking a variety of nutritious and tasty foods and meals. **This course qualifies for CTE** and is strongly recommended as the prerequisite to the ProStart Program or Careers in Education. The course can be repeated for an additional .5 credit but not in the same school year.
Concentration: Culinary and Hospitality, Food & Nutrition

ProStart® I

10, 11, 12 (Year)

This is a **year-long course** developed by the National Restaurant Education Association for students interested in going into the restaurant or hospitality industry. The course combines culinary and management skills, along with guest speakers and field trips in the industry. Students will develop culinary skills in food preparation, master knife skills, understand the importance of workplace safety and sanitation, plus prepare a variety of foods including desserts, baked goods, meat, poultry and seafood, stocks, soups and sauces. Students will also learn how to build a career in the food service industry and understand the steps to create and run a restaurant. Students will have the opportunity to earn hours toward the 400-hours of mentored work-based learning experience. At the end of the year students can also take the NRAEF Level 1 Exam to earn their ProStart National Certificate of Achievement. **This class fulfills two semesters of CTE.** Fee: \$10 Food Handlers Permit

Prerequisite: Passing Grade in Foods/Wellness

ProStart® II

10, 11, 12 (Year)

This is a **year-long course** developed by the National Restaurant Education Association for students interested in launching a career in the restaurant or hospitality industry. This course prepares students with entry level skills they can use to further their education at a culinary school to become chefs, restaurant managers or other professionals in the food industry. Students will prepare a variety of foods including desserts, baked goods, meat, poultry and seafood, breakfast food and sandwiches, salads and garnishing techniques, and explore a variety of global cuisine from around the world. They will also create menus and demonstrate proficiency in knife skills. Students will have the opportunity to earn hours toward the 400-hours of mentored work-based learning experience. At the end of the year students can also take the NRAEF Level 2 exam to earn their ProStart National Certificate of Achievement. **This class fulfills two semesters of CTE.** Fee: \$10 Food Handlers Permit

Prerequisite: Passing Grade in Foods/Wellness

COMPUTER SCIENCE/ENGINEERING

Intro to Programming – Video Game Programming [[Promo Video](#)]

9, 10, 11, 12 (Semester)

Video game programming is an introductory coding course. Students learn to animate objects, make graphic effects and different types of video games. Students will work solo and in teams to create 3-4 video games. This class may be taken additional semesters as an advanced student where 3D game design and VR applications will be explored. **This course qualifies for art or CTE.**

AP Computer Science Principles [[Promo Video](#)]

10, 11, 12 (Year)

Prerequisite: Intro to Programming or instructor approval

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. While this course can be a student's first in computer science, students without prior computing experience are encouraged to start with Introduction to Programming. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. This course is aligned to the AP Curriculum Framework standards and the AP CSP exam. **This course qualifies for CTE.**

Engineering - See Project Lead the Way- Engineering

DIGITAL DESIGN AND COMMUNICATIONS

Digital Media

10, 11, 12 (Semester)

Prerequisite: Beginning Art

Students will explore the use of computer applications to create a basic composition that adheres to the elements and principles of design. This course will cover computer applications such as: Adobe Software. Additionally, the course will incorporate the use of digital media for visual communication. The course curriculum will include individual class presentations, sharing of design ideas, creating individualized photographs, and group projects. The current Canon T models will be the cameras used by the beginning students. **This course qualifies for art or CTE.**

Advanced Digital Photography

Prerequisite: C grade or better in Digital Media

10, 11, 12 (Semester)

In this course the student will build upon their knowledge of digital photography through hands-on experience with lighting, flash, camera lenses, and Adobe Photoshop and Lightroom. The student can only take this course one time. **This course qualifies for art or CTE.**

Graphic Design

9, 10, 11, 12 (Semester)

This is a project-based class that will use sophisticated computer equipment and technology. Students will explore graphic design principles working with professional applications used in today's graphic design industry. Industry approved software includes: Adobe Photoshop, InDesign and Illustrator. Graphic Design offers a progression of design tasks focused on developing a comprehensive digital artist. Students will learn basic design principles and develop an understanding of sketching, technical drawing, color theory, imaging and studio photography. Students will create commercial art suited to a business's needs such as: logo and branding identity, business cards, brochures, flyers, posters, product design, etc. This course will also include a unit of Digital Citizenry, which will explore common issues facing the industry such as copyright law, photo distortion and the ethical concerns of social media and its impact in the modern world. **This course qualifies for CTE or ART.**

Video Editing

9, 10, 11, 12 (Semester)

Prerequisite: None

Students will learn to film using Canon DSLR Cameras, external microphones, drone footage, and LED/Softbox lighting set ups. In this project-based course students will edit their videos on Mac Books in order to create video compositions. This course will use technical computer applications such as Adobe Premiere Pro and Adobe After Effects. Additionally, the course will incorporate the use of video for visual communication. The course curriculum will include working individually and in groups. Students will share final videos with the class in "film reviews." This course qualifies for CTE.

EDUCATION & HUMAN SERVICES

Career Choices

11, 12 (semester)

Career Choices will support students in developing the skills that are needed to evaluate potential career paths and gain employment in the community. Students will engage in career exploration through multiple assessments and inventories and evaluate different career clusters and pathways. In addition, students will work on employment skills such as resume building, completion of proper cover letters, interview skills, communication skills, problem-solving, job applications, and support in connecting with community members.

Careers in Education

10, 11, 12 (Year Long)

Students interested in pursuing a career in education will learn about different career opportunities and prepare for higher education in this field. This is a year-long course in which students will learn about their roles as learner, leader, and community member, identify developmental characteristics and needs of themselves and school-age learners, examine the historical and current issues affecting education, complete an internship in a

local school classroom, learn about curriculum and how to put together instructional materials, and develop a portfolio including the products she/he must create in order to apply for higher education. No prerequisites required.

Work Based Learning

11, 12 (Semester or Year Long)

Work Based Learning helps students connect what they have learned in class to the workplace. Students who take Work Based Learning will gain work experience in a safe environment and will receive help navigating the workplace from their teacher and employer. By the end of this course, students will develop essential career skills needed to be successful in the workplace. Students will earn high school credit for going to work! For every 180 hours of documented work, students will earn .5 high school credits. Students will receive a semester credit (.5 credit) for 180 hours of documented worksite experience for a maximum of 1 credit per year. Students must attend regular check-ins with their Work Based Learning teacher, complete required paperwork, and provide proof of hours worked to receive course credit. Ideally, students should have the 6th period open for working.

MEDICAL-HEALTH SCIENCES

Beginning Sports Medicine A and B

9, 10, 11, 12 (Full Year)

The Sports Medicine Program is designed to provide a comprehensive approach to the progressive athletic training profession. Instruction is directed toward developing students' abilities to demonstrate knowledge in human anatomy, physiology, kinesiology, first aid and CPR. The program topics emphasize the prevention, recognition, evaluation, treatment, rehabilitation and emergency care of athletic related health conditions. Occupational credit or science elective credit is earned. This class can be repeated.

Advanced Sports Medicine (Sports Medicine II)

10, 11, 12 (Year)

Prerequisite: Completion of Beginning Sports Medicine

Equivalent Credit: CTE or Elective Credit

This is a yearlong course that will continue to explore current medical topics more in depth as well as anatomy, physiology, kinesiology, and professionalism. The main topics will include injury etiology, recognition, and treatment of the head and face, spine, hip, and abdomen as well as administration in sport, injury rehabilitation, and modalities in sport.

Fire Science

11, 12 (Full Year)

This course is designed to give junior and senior level high school students a basic understanding of fire's role in the natural environment. This foundational understanding will allow students to better understand fire management in the human environment. The two-year program provides the basic training and information for both structural and wildland firefighting. The course relies on established National Wildfire Coordinating Group (NWCG) courses, and other information for students to become proficient first year firefighters.

Design Studio [[Promo Video](#)]

9, 10, 11, 12, (Year)

"We give students ample opportunities to experiment, take creative risks, and fail. It's great preparation for real-world problem solving—because it is real-world problem solving." [Stanford d.School]

Design Studio is a project based class that works on solving real world problems using real world tools. Through the lens of Human Centered Design, students design solutions to challenges by aligning technology with human needs and interests. Students will gain credit for their core classes and more. Enrolling in Design Studio is a 4 period commitment. The focus in Design Studio is having students move towards independence in their learning, and eventually designing their own personal pathway(s). Students will be able to utilize a fully functioning makerspace, printmaking studio, photography and videography equipment, and many other types of prototyping tools. Students will also have access to software for 2D and 3D design for photography, graphic design, product and industrial design, video, web, UX and more. Students will use this equipment and software in order to learn.

[Conceptual Framework](#)

[Student Promo Video](#)

[Student Handout](#)

Inventioneering - Physical Computing

10, 11, 12 (Semester, within Design Studio Program)

In Inventioneering, students will make to learn, not the other way around. With guidance and support, students can use pencil and paper planning, CAD (Computer-aided Design), woodworking machines, CAM (Computer-aided Manufacturing) processes, and other open source tools such as Arduino and Processing to create physical manifestations of their ideas. Students' building process emphasizes technical communication within which students tailor both written and oral responses to a variety of professional audiences. Inventioneering is a hands-on, project based studio environment. **This course qualifies for CTE.**

Electives

Courses Offered:

<ul style="list-style-type: none">● ASB● Peer Tutor● Breakthrough● Leadership● Link Crew	<ul style="list-style-type: none">● Stagecraft● Late Arrival/Early Dismissal● Debate● Yearbook
--	---

ASB

11, 12 (Year)

Prerequisite: Must be an elected student body officer or complete application process with ASB advisor.

Students are directly responsible for ASB expenditures as well as planning and scheduling major school activities. Students will also serve as appropriate role models and act as communication liaisons between staff, students, administration and community. Students must purchase an ASB card (\$45).

Breakthrough [[Promo Video](#)]

10, 11, 12 (Semester)

This class will provide students with an opportunity to "break through" personal barriers to learning and success. Through instruction in learning styles, memorization, life skills, and specific academic strategies, students will learn to transfer acquired information from this class to other learning situations with a strong sense of team and family. Recommended for students with an attitude to make life changes.

Late Arrival/Early Dismissal

12 (Semester)

A senior wishing to take either late arrival or early dismissal must be enrolled in 5 full-time classes and be on track to graduate. Grade level counselors must approve based on a student's overall credits.

Leadership [[Promo Video](#)]

9, 10 (Semester)

This course is designed for high school students interested in developing leadership skills. Students will develop and enhance intra and interpersonal skills, as well as learn the foundation and fundamentals of effective leadership. This course will emphasize skills such as goal setting, communication, and organization to be a successful leader and role model in the school and community. Students will also learn to lead groups, facilitate group communication and the process of evaluating and improving group dynamics. This course will be a great opportunity for students interested in future leadership opportunities at Mead such as Link Crew and ASB; to begin building key leadership skills.

Debate [[Promo Video](#)]

9, 10, 11, 12 (Year; may be taken multiple times for advanced credit)

This course is a communication theory and performance-based class covering all types of speaking situations with emphasis on logic, persuasion, and creativity. Students use evidence and reasoning skills on issues involving laws, policies and values when they debate, and they will utilize communication, persuasion, art and acting skills when they perform in speech events. Second, third, and fourth year students will pursue advanced studies in debate. **This course may be used to fulfill one or two semesters of Art.** Students must purchase an ASB card (\$45).

Peer Tutor

11, 12 (Semester)

Prerequisite: Permission of Instructor

Juniors and seniors who have good skills in reading and math may choose to work throughout the school including within the Special Education department as a reading or math tutor. Students work with students struggling with basic skills on a daily basis, offering a valuable service to our school. Tutors are trained by the classroom instructor in specific remedial programs and receive elective high school credit for successful completion of the course. The class may be repeated for credit.

Peer tutor opportunities are also available in the Breakthrough class and Adaptive PE for high school credit only. If you are interested in being a peer tutor please talk with your counselor.

Link Crew Leadership

11-12 (Year), 10th graders may be accepted for spring semester upon interview with an advisor.

Prerequisite/Requirements: Application and Interview process with advisor, attend May Day, attend Link Crew Training (August).

Students enrolled in this course will plan, implement, and evaluate school activities focused on building community at Mead High School. Course content exposes students to concepts of Servant Leadership, communication, team building, and group process. Students will be expected to plan and attend events outside of the school day (including but not limited to, Freshmen Orientation in August and 2-3 after school events per semester). Students must complete the application process and be accepted into the class to complete the registration process.

Stagecraft [[Promo Video](#)]

9, 10, 11, 12 (Semester)

In Stagecraft, Mead’s Technical Theatre class, we will focus on the “behind the scenes” elements of the performing arts. You will learn stage lighting design and execution, elements of sound design, set design/construction, and production management. In order to be successful in this class, you must be self-disciplined, self-motivated, and be able to work reliably and independently without constant direct supervision. A crucial part of this class is your work outside of school hours running tech for concerts, plays, and other events in the theatre. In this class you will develop a deep appreciation for technical theatre, gain many of the skills to become a theatre technician, explore potential career opportunities, and learn to confidently run an event on your own. **This course qualifies for art.**

Yearbook [[Promo Video](#)]

11, 12 (Year)

Prerequisite: Permission of Instructor

This class digitally produces the award-winning MHS yearbook. The book will be taking on a new innovative direction in cutting edge design and content opening the way for more student voice. Using InDesign and Photoshop students will learn basic and advanced layout and design, and digital photography. Interview techniques and feature writing are strongly emphasized as well as financial skills. This is an excellent class for those interested in careers management, leadership and design. Time management and a strong work ethic are beneficial as the class is fast paced. Time outside of class may be required throughout the year to meet publication deadlines, but personal schedules can be worked around. Digital Media is suggested but not required. This course may be repeated once. Students must purchase an ASB card (\$45).

English

The study of English allows individuals to acquire the reading, writing, and speaking skills necessary for survival in today’s world. Some courses are specifically designed to improve basic skills. Other courses, which emphasize the study of great literature, also encourage critical thinking, classroom discussion, and an appreciation of

different viewpoints. The English curriculum provides students with many choices that will prepare them for the future and develop a lifelong pleasure in reading.

Courses Offered - *approved NCAA core course

<ul style="list-style-type: none">● *English 9A and 9B● *Honors English 9A and 9B● *English 10 A and 10B● *Honors English 10A and 10B● *Honors Sophomore Humanities of the World/English● *English 11/American Literature A & B	<ul style="list-style-type: none">● *Advanced Placement (AP) Language A & B● *Honors Junior Humanities● *English 12/British Literature A & B● *Bridge to College English Language Arts● Mythology and English Composition IV● Coming of Age and Creative Writing● *Advanced Placement (AP) Literature A & B
--	---

English 9A

9 (Fall Semester)

Students will be expected to expand their writing skills and become more competent in the areas of ideas and content, organization, voice, word choice, sentence fluency, and conventions. In addition, students will also study Greek roots, suffixes and prefixes to expand their vocabularies and improve their word recognition skills. This course covers short story, poetry, non-fiction, and drama through a literature anthology. Specific novels follow a theme-based approach and students will be required to do a variety of writing types. This class satisfies one semester of freshman English.

English 9B

9 (Spring Semester)

This course extends the writing and literature skills introduced in the first semester. Greek roots and affixes are also continued through this semester, along with vocabulary words from literature. The genres introduced in the first semester are continued along with Shakespeare's *Romeo and Juliet*. This class satisfies one semester of freshman English.

Honors English 9A & 9B

9 (Year)

Strongly recommended criteria for enrollment in the Honors Program:

- *Reading at least two grade levels above current grade level*
- *Scoring above the standard on the ELA Smarter Balanced Assessment*
- *An A or high B in his/her 8th grade English class.*
- *Strong work ethic*

This year-long accelerated course includes all of the regular ninth grade curriculum as well as additional reading, writing, and speaking commensurate with an advanced course. Students will work at a faster pace and study the curriculum in greater depth. A letter of interest is due in March. Students should demonstrate a strong desire to participate in the class and should maintain at least an 80% grade to demonstrate commitment to remain in the class for the second semester.

English 10A

10 (Fall Semester)

This course is designed to help students acquire the composition skills necessary in writing a multi-paragraph composition. Students *also read portions of an anthology and study several longer literature selections to examine themes, audience/voice, diction, fluency, and conventions*. The vocabulary program includes words from both literature and Latin roots. This class satisfies one semester of sophomore English.

English 10B

10 (Spring Semester)

Prerequisite: English 10A

This course extends the reading and composition skills introduced during the first semester. Students will also be asked to complete thesis papers, and use of MLA format will be practiced. Vocabulary study includes words from both literature and Latin roots. This class satisfies one semester of sophomore English.

Honors English 10A & 10B

10 (Year)

This year-long accelerated course includes all the regular tenth grade curriculum as well as additional reading, writing and speaking commensurate with an advanced course. *Literature is selected to reflect a variety of world perspectives so students may make connections with their social studies course*. Students will work at a faster pace and study the curriculum in greater depth.

Honors Sophomore Humanities [[Promo Video](#)]

10 (Year) Two-hour Block

A study of Human Nature through the complementary lenses of Literature and World History. This program uses an integrated, team-taught approach and is designed to identify and analyze the themes and tendencies of Humanity throughout time and across cultures. Students will analyze ideas, behaviors, attitudes that contribute to human flourishing as well as those that cause humans to diminish. Expectations are high, but all who are willing to work and learn are welcome to apply. Note: Cross-referenced under Social Studies. This course, if taken both semesters, may be used to satisfy the sophomore English and Social Studies requirements. This is an Honors level course which is reflected on student transcripts.

English 11/American Literature

11 (Year)

American Literature is a course designed to improve your knowledge of American history through the study of literature. Additionally, students will develop skills focused on reading comprehension and analysis, the writing process, and speaking and listening. We examine a range of works including novels, essays, short stories, plays, film, and poems. These pieces are viewed in historical context while the themes and ideas are assessed and discussed regarding each piece's relevance today. Some authors we learn about are Twain, Whitman, Dickinson, and Steinbeck and some anchor pieces we read are *The Great Gatsby*, *The Secret Life of Walter Mitty*, *The Crucible*, *The Grapes of Wrath*, and *The Help*. This class may be taken independently or as a continuation of first semester American Lit.

Advanced Placement (AP) Language and Composition [[Promo Video](#)]

11, 12 (Year)

Advanced Placement Language and Composition examines language and rhetorical strategies in various forms of writing: essays, letters, memoirs, editorials, autobiographies and critiques. Occasionally, an extended piece of nonfiction is read. Critical reading is the first area of emphasis, during which students gain practice at identifying rhetorical strategies. Then students evaluate how the rhetorical strategies achieve the author's intended effect or purpose. Throughout the course, students learn how to write expository and persuasive essays to convey the conclusions they draw.

The overarching purpose of AP Language and Composition is to develop students whose reading and writing enhance their awareness of the interactions among a writer's purpose, audience expectations, and subject matter. Students will also gain familiarity with the necessary skills and knowledge required for the Advanced Placement test. Note: Students will have the option of taking the Advanced Placement English Language Test in May and, depending on their score, receive college credit and/or advanced placement at most colleges and universities.

Honors Junior Humanities [[Promo Video](#)]

11 (Year, Two-period Block)

Honors Junior Humanities is an integrated, team-taught course that explores US History and American Literature as well as artistic, philosophical, social, and cultural movements that contributed to and shaped American society. Throughout the year, learning is organized into the following four thematic units: the Nature of Truth, Questions of Justice, Implications of Progress, and Self & Collective Identity. The class is driven by small and large group discussions, classroom debates, critical thinking, and the exploration of multiple perspectives. This course provides exposure to compelling and unique sources and experiences. Honors Junior Humanities is also designed to meet the needs of students who desire an honors level classroom experience with a balanced amount of homework. Expectations are high, but all who are willing to work and learn are welcome. Note: Cross-referenced under Social Studies. This course, if taken both semesters, may be used to satisfy the Junior English and Social Studies requirements.

English 12/British Literature

12 (Year)

This college-preparatory course will explore British literature from the Anglo-Saxon period through the Age of Reason. Students will trace the development of the hero and various roles in society as they examine and imitate a wide variety of writing by such diverse authors as Chaucer, Shakespeare, Milton, and Swift. Our exploration will incorporate the use of film, writing, presentations, and games. This course is highly recommended for those students who want an engaging historical perspective on the great thinking of the English-speaking world.

The chronological study of the great British literary works continues with an examination of writers ranging from the Romantic Period to modern authors. Students will examine novels, seeking commonalities and differences in the attitudes and writing styles of the various time periods by exploring diverse and engaging novels such as *Frankenstein* and *Alice's Adventures in Wonderland*. This course may be taken independently and need not be a sequel of British Literature A.

Bridge to College English Language Arts (Course Code: 01069)

11, 12 (Year)

Bridge to College ELA is a yearlong course focusing on the English language arts key readiness standards from WA States K-12 Learning Standards for English. The course is designed to prepare students for entrance into post-secondary credit-bearing courses. The curriculum emphasizes focused reading, writing, speaking & listening and research to develop college and career readiness skills in critical reading, academic writing and research inquiry. Students will engage with rigorous texts and activities to learn skills such as evaluating source information, synthesizing multiple sources of evidence to support claims, and writing quality argument essays that promote the incorporation of evidence balanced with independent thinking. The course will also develop essential habits of mind necessary for success in college and career, including independence, productive persistence and metacognition. **Not NCAA approved for student-athletes.**

Mythology

12 (Year)

Mythology will provide an overview of significant myths and stories from world cultures (Sumerian, Greek, Roman, and Celtic), their origins, their psychological roots, and how these stories influence our lives. Special emphasis will be on creative writing, such as the writing of myths and folk stories. Mythology will be paired with Modern Writing.

This senior-level class will focus on critical reading and writing skills expected in most careers. The emphasis will be on professional-quality composition skills: content, organization, and conventions. Students will learn and reinforce critical reading skills through various texts. This course will also prepare students for entrance into the work world by focusing on skills such as independence, work ethic, and productive collaboration.

Coming of Age and Creative Writing

12 (Year)

Coming of Age/Creative Writing is a literature-based class that focuses on the challenges we all face as we mature. Students will read such titles as *The Curious Incident of the Dog in the Night Time*, *The Secret Life of Bees*, and *The Kite Runner*, as well as independent novels, short stories, and poetry which all examine the coming-of-age theme. We will respond to the literature by means of projects, writing, and discussions. Students will experiment with different prose and poetic styles. Students will also explore personal experiences through creative writing, and writing for enjoyment will be encouraged.

This senior-level class will also focus on critical reading and writing skills expected in most careers. The emphasis will be on professional-quality composition skills: content, organization, and conventions. Students will learn and reinforce critical reading skills through various texts. This course will also prepare students for entrance into the work world by focusing on skills such as independence, work ethic, and productive collaboration.

Advanced Placement (AP) Literature

12 (Year)

This course is a freshman college-level English class. Students will learn to appreciate, interpret, and analyze selected classics and modern pieces of literature. By writing an analytical theme on major works read throughout the school year, students will develop a mature, clear, well-organized style of writing. Skills for taking an essay test will be developed, and research skills will be utilized to develop a literary research paper. Students will read works of literature that may include: *Frankenstein*, *Hamlet*, *Fences*, *The Picture of Dorian Gray*, *The Alchemist*, *Death of a Salesman*, Dystopian Literature Circles, *African American Literature Circles*, and various book club selections as well as selected short stories and poetry. Note: Students will have the option of taking the Advanced Placement English Literature Test in May and, depending on their score, receive college credit and/or advanced placement at most colleges and universities.

Health and Fitness

Health and Fitness at Mead High School focuses on lifetime activities as a way to enhance a healthy lifestyle through health and physical fitness. A variety of team and individual activities are offered. Two credits of Health and Fitness are required for graduation. In the 9th grade students are required to take one (1) semester of Health - Fitness and one (1) semester of Health, either PATH (Personal Awareness Through Health) or Nutrition and Fitness. Sophomores are encouraged to take one (1) semester of Health-Fitness in the 10th grade. The remaining .5 credit may be taken during the 10th, 11th or 12th grade. 11th and 12th grade credit must be earned from upper level offerings.

Courses Offered

<ul style="list-style-type: none"> ● PATH (Personal Awareness Through Health) *Health Credit Only ● Nutrition and Fitness *Health or PE Credit 	<ul style="list-style-type: none"> ● Weights ● Yoga/Pilates ● Racquet Sports ● Volleyball ● PE
--	---

PATH - (Personal Awareness through Health)

9, 10, 11, 12 (Semester)

The curriculum includes the state human sexuality requirement and a wide range of health and personal life skills that will help ninth graders transition to the high school environment. This counts only as a Health credit.

Nutrition and Fitness

9, 10, 11, 12 (Semester)

Students will explore a healthy lifestyle through running and exercise. Running (aerobic conditioning) has many positive physical, mental/emotional and social aspects that help enhance the quality of a person’s life (stress reducer, maintaining a healthy body weight and more efficient cardiovascular system). Students will also learn the importance of proper nutrition and the aspects of personal health and wellness through goal setting, journaling, current health trends and events, and the F.I.T.T. Principles in creating a lifetime fitness plan for their future. This class fulfills either one semester of Health or one semester of PE.

P.E.

9, 10, 11, 12 (Semester)

Six three-week units involve a variety of activities. Students are evaluated on participation, fitness, skill, and knowledge of rules. Activities may include, but are not limited to, softball, aerial football, soccer, lacrosse, field hockey, tennis, badminton, basketball, and team handball.

Weights

9, 10, 11, 12 (Semester)

Weight training is a high intensity activity based class emphasizing cardiorespiratory fitness, muscular strength and endurance, core strength development, balance, flexibility, and speed / agility enhancement. Classes are co-ed and include free weight exercises, body weight exercises, speed / agility drills, and endurance training.

Yoga/Pilates

9,10, 11, 12 (Semester)

This course combines the well-established benefits of yoga, Pilates, and weights to build strength, gain flexibility, and increase balance. In yoga, we will focus on the basics of centered breathing, body alignment, and various vinyasas. Pilates adds core strengthening along with toning for the upper and lower body. We will also lift weights and complete fitness circuits using TRX, bikes, sand bells, etc. for a well-rounded workout. Students are evaluated on individual and partner projects, written tests, fitness tests, as well as participation including attitude and effort. This class may be taken more than once for .5 PE credit.

Racquet Sports

9, 10, 11, 12 (Semester)

The practice and study of lifetime health/fitness activities of badminton, pickleball, tennis, (and other possible racquet sports). Students will be evaluated on skills, tactics, improvement, written tests, fitness, effort/attitude toward learning, attendance/participation.

Volleyball

9, 10, 11, 12 (Semester)

Volleyball is a structured program for skill and game development. Students are evaluated on technique, tactics, knowledge (applied and written) effort, improvement, attitude toward learning, physical fitness and attendance. Class may be taken more than once for advanced credit.

Unified Physical Education (UPE)

11, 12 (Semester)

A unique opportunity for students of varying ability levels and backgrounds to come together on equal terms through ongoing fitness, sports, leadership and wellness activities. Unified P.E. focuses on the physical, intellectual and social growth of all participants. Engaging in physical activity and sport alongside peers with and without disabilities helps to foster important social relationships.

Pre-Requisites:

- Seniors and Juniors will have the first opportunity to join the class.
- Students must have already completed at least 1 PE credits (2 PE courses).
- Students need to complete and turn in an application (See Mr. Lehr).

Math

The Mead High School math curriculum provides several sequences of study, depending on the student's middle school background and future plans. Three credits of math are required for graduation.

Courses Offered - *approved NCAA core course

<ul style="list-style-type: none">● *Algebra I● *Geometry● *Algebra II● *Advanced Algebra II● Bridge to College Math● *Pre-Calculus● *Advanced Pre-Calculus	<ul style="list-style-type: none">● *Math 107 Mathematical Reasoning● *Advanced Placement Calculus AB● *Advanced Placement Calculus BC● Calculus (Calc 3)● AP Statistics
---	--

Algebra I

9, 10, 11, 12 (Year)

Algebra 1 is foundational for all future math courses. Students explore algebraic problem-solving for linear, exponential, and quadratic functions as represented in context or as a graph, equation, and table. Areas of study include arithmetic and geometric sequences; linear systems and inequalities, polynomials and factoring; and modeling and statistics. This course is consistent with Washington State Standards.

Geometry

9, 10, 11, 12 (Year)

Prerequisite: C or better in Algebra I, or teacher recommendation

In this course, students will strengthen their logical system of thought while developing geometric concepts and addressing formal proof through transformational reasoning. Algebra is used throughout to analyze characteristics of geometric figures through the coordinate plane. The Common Core State Standards and Standard for Mathematical Practices are followed in this course.

Algebra II

11, 12 (Year)

Prerequisite: Geometry/(Algebra I), or teacher recommendation

The class is for those who earned a “C” grade or less in Algebra I and/or Geometry and feel they need additional support in developing skills related to: expressions, equations & different types of algebraic, exponential & logarithmic functions. Problem solving in algebraic language will be emphasized, along with concepts in probability and statistics. A Grade of “C” or better is recommended for advancement. Students will be assigned to the class based on teacher recommendation.

Advanced Algebra II

9, 10, 11, 12 (Year)

Prerequisite: C or better in Algebra I, or teacher recommendation

Advanced Algebra II extends algebraic and geometric concepts from previous courses. It develops advanced algebra concepts such as: polynomials, imaginary and complex numbers, quadratics, rational and radical functions, exponential and logarithmic functions, and trigonometric functions. Several concepts taught throughout this course will be enhanced visually by the use of graphing calculators. Throughout this course, students will develop learning strategies, critical thinking skills, and problem solving techniques to prepare for future math courses. The content of this course is essential for students’ success on both the SAT and college mathematics entrance exams. Students who complete Advanced Algebra II should take a Pre-Calculus course next.

Bridge to College Math

12 (Year)

Prerequisite: Algebra II/Advanced Algebra II, or teacher recommendation

The Bridge to College Mathematics course is grounded in the Southern Regional Education Board’s Math Ready Course. Intended for Students heading for college pathways not requiring calculus, the curriculum emphasizes modeling with mathematics and the Common Core Standards for Mathematical Practice, and a variety of essential standards from Algebra I, statistics and geometry, plus the Algebra II standards agreed to as essential college-and-career readiness standards for most students. The course emphasizes student engagement based heavily on conceptual teaching and learning. The Bridge to College courses are fourth-year (senior-level) courses designed for students scoring a Level 2 on the Smarter Balanced high school assessment (11th grade). Students who earn a “B” or better in the Bridge Course are eligible to enter credit-bearing coursework in any of the State of Washington Community and Technical Colleges.

Not NCAA approved for student-athletes.

Math 107 Mathematical Reasoning

12 (Year)

Prerequisite: Algebra 2

Dual Enrollment class through Eastern Washington University.

The course explores sets, basic logic, truth tables, elementary probability and statistics, geometry and the connections between mathematics and art, exponential functions, logarithms and geometric series. The spirit of the course is one of reasoning and problem solving. **This course is best suited for seniors who will be pursuing a major that does not require calculus or algebra intensive courses (non-STEM Majors).**

Pre-Calculus

9, 10, 11, 12 (Year)

Prerequisite: C or better in Advanced Algebra II, or teacher recommendation

The Pre-Calculus course work will prepare those students interested in taking AP Calculus as well as those preparing for college entrance. Students will review concepts associated with functions and graphing. Polynomial, rational, exponential and logarithmic functions and their applications will be studied in greater detail. Topics in analytic geometry and trigonometry will be covered completely. Students will study sequences and series, and be introduced to the concept of limits and other calculus ideas.

Advanced Pre-Calculus

10, 11, 12 (Year)

Prerequisite: C or better in Advanced Algebra II, or teacher recommendation

This is a prep for college course designed to prepare students for the rigor of college math and Calculus. First semester we will be studying traditional pre-calculus topics including but not limited to trigonometry, parametric equations, polar equations, sequences, series, and matrices. Second semester we will begin a study of Differential Calculus including but not limited to limits, the derivative, and applications involving differentiation.

Advanced Placement Calculus AB

10, 11, 12 (Year)

Prerequisite: Pre-Calculus, or teacher recommendation

Students will apply skills & information acquired in previous math courses. Learning will include techniques of differentiation & integration of algebraic, trigonometric & logarithmic functions. Applications include measuring the position, velocity & acceleration of moving objects; optimization & related rates; finding volumes of complicated solids using the methods of disks & washers. Note: Students will have the option of taking the Advanced Placement Test in May, & depending on their score, receive college credit &/or advanced placement at most colleges & universities. Grade of C or better recommended and a passing grade required for advancement.

Advanced Placement Calculus BC

10, 11, 12 (Year)

Prerequisite: Advanced Pre-Calculus, or teacher recommendation

The topics covered in the AP Calculus BC course include advanced integration techniques; Parametric, polar and Vector functions; Slope Fields; Differential Equations using Euler's method; Sequence and Series Study to include geometric, Taylor and Maclaurin polynomials and extended study of applications of derivative and integral calculus. This course will prepare students to enter the last calculus course offered at most colleges and universities. Students taking this course may take the AP Calculus BC exam given by the College Board in May. Many students passing the Calculus BC exam with a grade of 3 or higher are awarded two semesters of college level calculus credit. NCAA Core.

Advanced Placement Statistics

11, 12 (Year)

Prerequisite: Advanced Algebra II

AP Statistics is the in depth study of data analysis, statistical inference, probability study and sample spaces. Students will learn to interpret sets of data using histograms, box and whisker plots, tables and bar graphs. Mathematical formulas will be developed through the use of the statistics' capability of the TI-84 graphing calculator. Students will learn to create a statistical model of a sample space of their own creation. Much of this course will be the practice of looking at specific data and making inferential judgments on the validity of the data. Students will complete the course by having the opportunity to take several practice AP Statistics exams to prepare them for the AP Statistics exam given each May by the College Board.

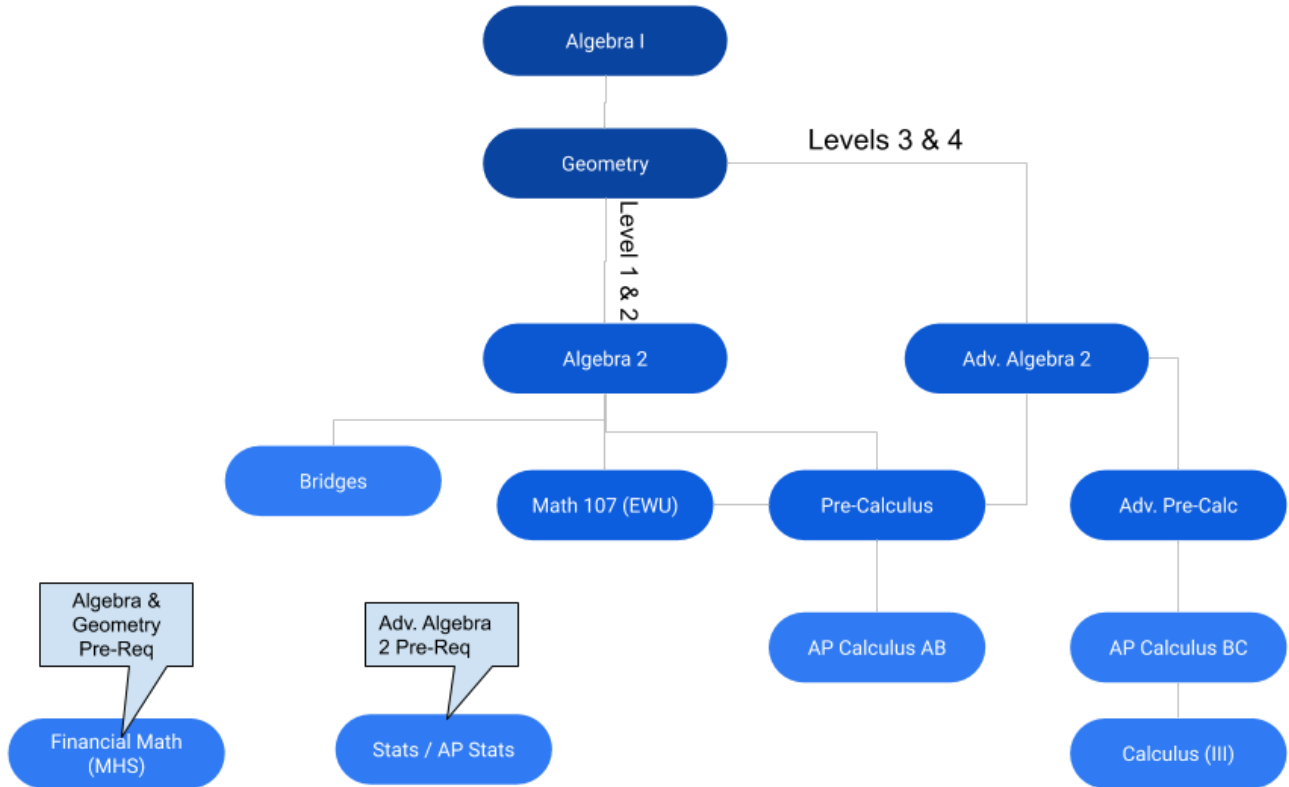
Calculus (Calc 3)

12 (Year)

Prerequisite: C or better in AP Calculus BC

This class is equivalent to a college level calculus course. This class will go into more depth and detail of topics already studied in Calculus BC as well as developing new topics typically seen in a college setting. New topics include but are not limited to delta-epsilon proofs, evaluating integrals with trig substitutions, volume of revolution by the shell method, higher order differential equations, partial derivatives, and double and triple integrals.

Mead School District High School Math Flowchart



Performing Arts

The performing arts exult the human spirit! They enhance the quality of life by engaging the imagination and allowing for personal expression. The most successful efforts to improve relations are said to be through cultural exchanges of the arts. The arts have value to offer everyone regardless of age, ability, economic and social status, or race. In addition to serving as one of the best means of relieving the tensions, stresses, and strains of contemporary life, the arts teach us to make good judgments about qualitative relationships; that problems can have more than one solution; and that small differences can have large effects. Most importantly, the arts teach us to be creative, inspiring and to be, simply, more human.

Courses Offered

<ul style="list-style-type: none">● Acting● Advanced Acting● Intro to Voice A & B● Concert Choir A & B● Chamber Choir A & B● Jazz Choir A & B● Introduction to Voice	<ul style="list-style-type: none">● Wind Ensemble A & B● Symphonic Band A & B● Instrumental Jazz Ensemble A & B● Percussion A & B● String Orchestra A & B● Concert Orchestra A & B● Chamber Orchestra A & B
--	---

Acting [[Promo Video](#)]

9, 10, 11, 12 (Semester)

Theatre plays an integral role in a student's well-rounded education. In this class you will be exposed to various facets of theatre such as character analysis, scene shaping, improvisation, story theatre, reader's theatre, careers & current events in the entertainment world, theatre history, production and direction, and performance evaluation. As you work together with other actors, you will be pleasantly surprised with your own personal growth over the semester, as well as the strengthening of your performance skills. Whether you are interested in pursuing a career in the arts, plan to be involved in the arts as a hobby, or are interested in being a committed patron of the arts, this class will help you develop a deeper appreciation, understanding and application of theatre. Regardless of where life takes you after high school, you will leave this class with more confidence in yourself and in communicating and listening...skills any employer would desire to have in their employees.

Advanced Acting [[Promo Video](#)]

9, 10, 11, 12 (Semester)

Prerequisite: Acting

Students must have passed at least one semester of Acting in order to enroll in Acting at the Advanced level. This course furthers knowledge and skills acquired in the Acting class and includes advanced work in monologues and scene study. Working alongside beginning students, advanced students will be given additional performance material, as well as more elevated performance tasks. Additionally, Advanced students will be expected to guide beginning-level students through several units.

VOCAL MUSIC

Intro to Voice A & B [[Promo Video](#)]

9, 10, 11, 12 (Semester)

Prerequisite: None

Intro to Voice is a general music class focused primarily on singing. We cover topics like how to sing, how the voice works, music theory, ear training, listening, performance, and more! The class also includes independent projects in which students can focus on areas of interest - for example, performance projects that allow students to perform any piece of music of their choice (musical theatre, pop, rap, you name it!). Intro to Voice is designed for students who want to learn more about music/singing but prefer a smaller group and more freedom to explore than in an ensemble. With no prerequisites and no musical experience required, Intro to Voice is a great option for the complete beginner, or the choir student looking to dig into the background of their vocal instrument and add more music to their day, with more 1:1 time with the teacher to work on their personal technique.

Concert Choir A & B [[Promo Video](#)]

9, 10, 11, 12 (Year)

Prerequisite: Audition and instructor approval.

Description: Concert Choir is the cornerstone choral ensemble of Mead High School. The choir maintains a rigorous rehearsal, performance, and travel schedule, including a fall retreat, various holiday concerts, festival competitions, an end-of-year concert, and the potential for winter or spring tours. Membership is for the full academic year. All Mead High School students are welcome to audition.

Requirements: Current membership in ASB (\$45). This course fulfills two semesters of Art. Course fee: \$130 base cost (\$70 uniform fee, \$50 retreat, \$10 travel/equipment costs). If touring, an additional \$200-\$300 for travel/lodging.

Treble Choir A & B [[Promo Video](#)]

9, 10, 11, 12 (Year)

Prerequisite: None

Treble Choir is a chamber vocal ensemble open to all treble voices (typically womens') who want the experience of singing advanced music with a smaller group than Concert Choir. This choir will perform in holiday concerts, festival competitions, and an end-of-year concert, and will join Concert Choir on fall retreat. Rehearsals will focus on the preparation of music and on foundational musical skills (such as music theory, sight-reading, rehearsal strategies, and performance etiquette). Membership is for the full academic year, and may be taken concurrently with Concert Choir.

Requirements: Current membership in ASB (\$45). This course fulfills two semesters of Art. Course fee: \$80-130, with scholarships and fundraising available (\$70 uniform fee, \$50 retreat [optional], \$10 travel/equipment costs)

Jazz Choir A & B [\[Promo Video\]](#)

9, 10, 11, 12 (Year)

Prerequisite: Audition and instructor approval PRIOR TO AUGUST.

The Mead Jazz/Chamber Choir is a select ensemble for vocalists who wish to go beyond the performance schedule and rigor of Concert Choir. It offers advanced, small ensemble vocal music in a student-driven setting. Genres include jazz, Broadway, pop, madrigals, carols, and more. Jazz Choir performs at festivals in Spokane and the Seattle area (sometimes further) and attends summer and winter retreats. Members are also expected to participate in sectionals, rehearsals, seasonal concerts, national anthems, and other events outside class time. Enrollment is for the full academic year. All students are welcome to audition. Please note: this course meets during zero hour (7:00am).

Requirements: Current membership in ASB (\$45). Concurrent enrollment in another major ensemble during the school day (true of all zero hour ensembles). **This course fulfills two semesters of Art.** Course fee: \$800-1,000 depending on travel. Scholarships and fundraising available.

INSTRUMENTAL MUSIC

Wind Ensemble A & B

9, 10, 11, 12 (Year)

Prerequisite: Audition with Director

Emphasis will be placed on performance of the best concert band literature available and development of advanced ensemble and individual playing techniques. This is the highest level concert band offered. This is a performance-based class and the "team" concept is of utmost importance. As such, attendance is required for all events that involve Wind Ensemble students. Most of these events take place outside the school day. Students must be able to commit to this course for a complete school year.

Please Note:

- For a complete listing of events, class requirements and grading policies, please refer to the Mead High School Band and Color Guard website at meadbands.org

- Students will be required to adhere to a code of conduct.
- This class will contain fees (\$100 to \$200 plus ASB \$50) and will include overnight travel to festivals and performances.

Symphonic Band

9, 10, 11, 12 (Year)

Prerequisite: Audition with Director

Emphasis will be placed on performance of the suitable concert band literature available and development of advanced ensemble and individual playing techniques. This is a performance based class and the “team” concept is of utmost importance. As such, attendance is required for all events that involve Symphonic Band students. Most of these events take place outside the school day. Students must be able to commit to this course for a complete school year.

Please Note:

- For a complete listing of events, class requirements and grading policies, please refer to the Mead High School Band and Color Guard website at meadbands.org
- Students will be required to adhere to a code of conduct.
- This class will contain fees (\$50 to \$100 plus ASB \$50) and will include overnight travel to festivals and performances. Special event trip -

Percussion

9, 10, 11, 12 (Year)

Prerequisite: Prior experience on an instrument preferred

Emphasis will be placed on the development of technique and skill necessary to the performance of concert percussion ensemble literature, marching percussion literature and concert band. The percussion class is a performance based class and the “team” concept is of utmost importance. As such, attendance is required for all events that involve percussion students and/or symphonic band students. Most of these events take place outside the school day.

Notes:

- For a complete listing of events, class requirements and grading policies, please refer to the Mead High School Band and Color Guard website at meadbands.org
- Students will be required to adhere to a code of conduct.
- This class will contain fees (ASB \$50) and will include overnight travel to festivals and performances. Special event trip

Instrumental Jazz Ensemble

9, 10, 11, 12 (Year)

Prerequisite: Audition with director(s)

Emphasis is placed on the development of technique and skill necessary to the performance of classic and contemporary big band/combo literature. This is a performance-based class and the “team” concept is of utmost importance. As such, attendance is required for all events that involve jazz band students. Most of

these events take place outside the school day. Students must be able to commit to this course for a complete school year.

Notes:

- For a complete listing of events, class requirements and grading policies, please refer to the Mead High School Band and Color Guard website at meadbands.org
- Students will be required to adhere to a code of conduct.
- This class will contain fees based upon which level the student qualifies for Jazz I (\$215 -\$315 plus ASB \$50), Jazz II (\$200-300 plus ASB \$50) or Jazz III (\$50-\$100 plus ASB \$50) and will include overnight travel to festivals and performances. Special event trip - Pending school board approval). The price range for a trip of this nature could be between \$1200 to \$1800. This special event trip is not a requirement of the class but rather an opportunity

String Orchestra A & B [[Promo Video](#)]

9 (Year)

Prerequisite: Minimum of two years prior instruction and/or experience

The String Orchestra is a group of dedicated and talented string players who desire to explore music at the high school level studying composers from the Baroque to 21st Century. Students will develop fundamental performance skills through a variety of sight-reading, rhythm and technique building curriculums. Through a variety of High School grade-leveled literature the String Orchestra will develop consistent musicianship skills, team-work and artistic expression. The orchestra has an active rehearsal, performance and travel schedule with school, community and festival performances both in and out of state. Membership is for the full academic year. Current membership in ASB (\$45) is required. **This course fulfills two semesters of Art.** Course fee: \$100-200

Concert Orchestra A & B [[Promo Video](#)]

10, 11, 12 (Year)

Prerequisite: Minimum of three years prior instruction and/or experience

The Concert Orchestra is a group of dedicated and talented string players who desire to explore music with the most revered composers in the history of composition to the present. Students will refine already developed fundamental performance skills as well as learning more advanced technique through method curriculum and higher level String Orchestra Literature. This performance based ensemble emphasizes musicianship skills, team-work and artistic expression. The orchestra has an active rehearsal, performance and travel schedule with a wide variety of school, community and festival performances both in and out of state. Membership is for the full academic year. Current membership in ASB (\$45) is required. **This course fulfills two semesters of Art.** Course fee approximate depending on year: \$100 - 200 -

Chamber Orchestra A & B [[Promo Video](#)]

9, 10, 11, 12 (Year)

Prerequisite: Audition and Instructor Approval

This auditioned Chamber ensemble is made up of students who demonstrate an advanced level of skill, technique and musicianship. Members are exposed to advanced string orchestra literature learning a variety of techniques and styles from the Baroque to twenty-first century periods. Students develop strong independent skills leading to mastery without a conductor. Violin and viola students must be proficient in 1st through 5th positions. Cello and bass students must be proficient in 1st through 4th positions and working on proficiency in thumb position. Private lessons are recommended. The schedule is demanding with 0 hour rehearsals, a variety of performances for the school, community and festival performances both in and out of state. **Membership is required for the full academic year due to year-long repertoire projects.** Students are expected to attend all scheduled concerts and performances. Audition dates will be posted in the spring. *NOTE: Ninth graders contact Dorothy Baldwin for audition materials and audition dates. This class is instructor approval only.* Current membership in ASB (\$45) is required. **This course fulfills two semesters of Art.** Course fee approximate: \$100-200.

Project Lead the Way (PLTW)

PLTW prepares students to be the most innovative and productive leaders in Science, Technology, Engineering and Mathematics (STEM) and to make meaningful, pioneering contributions to our world.

PLTW partners with high schools to provide a rigorous, relevant STEM education. Through an engaging, hands-on curriculum, PLTW encourages the development of problem-solving skills, critical thinking, creative and innovative reasoning and a love of learning.

Mead High School is proud to offer two courses of study under the Project Lead the Way umbrella: Engineering and Biomedical Science.

Courses Offered

- Project Lead the Way – Engineering Academy
 - Introduction to Engineering Design
 - Principles of Engineering
 - Civil Engineering and Architecture
 - Engineering Design and Development with Aerospace Emphasis
- Project Lead the Way – Biomedical Sciences Academy
 - Principles of Biomedical Science
 - Human Body Systems
 - Medical Interventions
 - Biomedical Innovation

ENGINEERING ACADEMY [[Promo Video](#)]

Introduction to Engineering Design + Design Lab (Woodworking & Metalworking)

9, 10, 11, 12 (Year)

Thinking about pursuing a career in Engineering or a related field?

Do you like to work with your hands and build stuff?

Do you like to solve problems?

If so, this may be the class for you.

Students in this class will spend time in the computer lab and the woodshop, where they will learn Engineering and manufacturing skills. Students will use Engineering software (AutoCAD and Inventor) to design and 3-D model their ideas, and state of the art equipment to build projects. Equipment includes: Laser Engravers, 3-D printers, CNC Wood Router, CNC Plasma cutter, MIG welders and all the tools in the MHS woodshop. Extra learning in afterschool programs are also available for students. These include: Welding, Computer Programming, Robotics and Woodshop specific projects (TBA).

This is the first course of the PLTW Engineering Academy. **This class fulfills two semesters of the CTE credit, or elective credits, and may qualify for college credit.**

Principles of Engineering

10, 11, 12 (Year)

Prerequisite: Must have completed Introduction to Engineering

A course that helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change. This course will be the second of four classes required for the PLTW Engineering Academy. **This course fulfills two semesters of CTE and may qualify for college credit.**

Civil Engineering and Architecture

11, 12 (Year)

Prerequisite: Must have completed Principles of Engineering or Instructor's Approval

This course provides an overview of the fields of Civil Engineering and Architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities. This course covers topics such as: The Roles of Civil Engineers and Architects; Project Planning; Site Planning; Building Design; and Project Documentation and Presentation. Five college credits can be purchased through Eastern Washington University. **This course fulfills two semesters of CTE or elective credits. This class qualifies for an Art credit.**

Engineering Design and Development with Aerospace Emphasis

12 (Year)

Prerequisite: Must have completed Introduction to Engineering or Instructor's Approval

An engineering research course in which students work in teams to research, design and construct a solution to an open-ended engineering problem. Students apply principles developed in the preceding courses and are guided by a community mentor. They must present progress reports, submit a final written report and defend their solutions to a panel of outside reviewers at the end of the school year. This is the capstone class for PLTW Engineering Academy. Four college credits can be purchased through Eastern Washington University. **This course fulfills two semesters of CTE or elective credits.**

BIOMEDICAL SCIENCES ACADEMY

Principles of Biomedical Science [[Promo Video](#)]

9, 10, 11, 12 (Year)

Students investigate a variety of healthcare careers to elevate awareness in post high school career pathways. Subjects included in the course are: medical investigation, clinical care, outbreaks and emergencies, and innovation. Human body systems and various health conditions including heart disease, brain injuries, and

infectious diseases are covered. The activities and projects introduce students to human physiology, medicine, research processes and bioinformatics. Collaborative project based learning develops students' 21st Century Skills. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses. All PLTW courses are aligned with Next Generation Science Standards and National Health Science Standards.

Course Counts for:

General Biology OR

Career Technical Education OR

Third year of Lab Science

****Additionally, students may apply for college credit pending completion of the course and PLTW Exam score****

Human Body Systems

10, 11, 12 (Year)

Students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal mannequin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries. **This class fulfills two semesters of Career Technical Education and students may apply for college credit and can fulfill the third year of lab science requirement.**

Course Counts for:

General Biology OR

Career Technical Education OR

Third year of Lab Science

****Additionally, students may apply for college credit pending completion of the course and PLTW Exam score****

Medical Interventions (MI) (Year 3 of Project Lead the Way Biomedical Sciences)

11,12 (Year)

Suggested Prerequisites: Principles of Biomedical Science or Instructor's approval

Students investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body as students explore: how to prevent and fight infection; how to screen and evaluate the code in human DNA; how to prevent, diagnose and treat cancer; and how to prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Lifestyle choices and

preventive measures are emphasized throughout the course as well as the important roles scientific thinking and engineering design play in the development of interventions of the future. **This course fulfills two semesters of CTE and students may apply for college credit.**

Course Counts for:

Career Technical Education

****Additionally, students may apply for college credit pending completion of the course and PLTW Exam score****

Biomedical Innovation (BI) (Year 4 of Project Lead the Way Biomedical Sciences)

Suggested Prerequisites: Principles of Biomedical Science or Human Body Systems or Medical Interventions 12 (year)

In this capstone course, students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project and may work with a mentor or advisor from a university, hospital, physician's office, or industry. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community. **This course fulfills two semesters of CTE and students may apply for college credit.** Under an articulation agreement with Spokane Community College, students can earn transcribed credit for successful completion of the Medical Terminology Certificate program.

Course Counts for:

Career Technical Education

SCC Transcribed College Credit

Science

The Mead High School science curriculum provides learning experiences that stress the knowledge and understanding of science concepts and processes. Students will gain skills associated with laboratory investigations and be able to interpret and communicate scientific information. Students will also explore the role and application of science within society.

Courses Offered - *approved NCAA core course

<ul style="list-style-type: none">● *Physical Science A & B● *Biology A & B● *Principles of Biomedical Science A & B● Human Body Systems A & B● *Chemistry In Our World● *Chemistry A & B● Advanced Placement Chemistry A & B/CHEM 171 + CHEM 171L	<ul style="list-style-type: none">● *Advanced Placement (AP) Biology A & B● *Physics A & B● *Advanced Placement Physics A & B● *Human Anatomy A & B● Environmental Science A & B● *Advanced Placement Environmental Science A & B
--	--

Physical Science (IPS) A & B

9 or 10 (Year)

The purpose of this course is to give students introductory knowledge of physics, earth science and space science. In the physics area concepts covered will include: motion, force, energy and waves. Space science concepts covered include: the universe, stars, solar system and early Earth. Earth science concepts include climate, natural resources and human impact. Laboratory investigations will emphasize **Course fulfills a physical science education credit. This course may be taken in year 10 for students taking Principles of Biomedical Science in year 9.*NCAA approved for student-athletes.**

Biology A & B

9* or 10 (Year)

Biology is the study of living organisms. Specifically, this course focuses on the structural make-up of organisms, how characteristics are passed from parents to offspring, and how species can change over time. Major biological concepts covered in the course include biochemistry, cellular function, the importance of DNA, molecular genetics, evolution, and ecosystem function. Laboratory investigations throughout the course allow students to form and test hypotheses, as well as develop skills to answer scientific questions. **This course fulfills a biological science education credit.** Ninth-grade students may register for Biology if they are concurrently enrolled in Geometry. ***NCAA approved for student-athletes.**

Principles of Biomedical Science A & B [\[Promo Video\]](#)

9, 10, 11, 12 (Year)

Students investigate a variety of healthcare careers to elevate awareness in post high school career pathways. Subjects included in the course are: medical investigation, clinical care, outbreaks and emergencies, and innovation. Human body systems and various health conditions including heart disease, brain injuries, and infectious diseases are covered. The activities and projects introduce students to human physiology, medicine, research processes and bioinformatics. Collaborative project based learning develops students' 21st Century Skills. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses. All PLTW courses are aligned with Next Generation Science Standards and National Health Science Standards. (Part of the Biomedical Science Academy). **Year 9 students may take this course in lieu of Biology and may be registered for Algebra or Geometry.**

Human Body Systems A & B

10, 11, 12 (Year)

Students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal mannequin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries. **This class fulfills two semesters of Career Technical Education, students may apply for college credit and can fulfill the third year of lab science requirement. (Part of the Biomedical Science Academy). Year 10 students may take this course in lieu of Biology.**

Chemistry In Our World

11, 12 (Year)

This course is designed for students who do not meet the math requirement for general chemistry or are not interested in attending a 4 year university post high school. Regular attendance is necessary due to the abundance of activities and labs that are used to enhance the curriculum. The areas of chemistry covered in this course are similar to general chemistry, however the emphasis is more conceptual and does not include problem solving/math skills found in a traditional general chemistry course. Areas covered include: properties of matter, states of matter, atomic structure, periodic table, chemical reactions, moles, chemical equilibrium, and nuclear chemistry as well as a variety of chemistry topics that apply to our world. ***NCAA approved for student-athletes.**

Chemistry A & B

10, 11, 12 (Year)

Course fulfills a physical science education credit.

11-12 (Year) **Prerequisite: Algebra I & Geometry (C or better), Physical Science, Biology; continuation in mathematics strongly suggested**

10 (Year) **Prerequisite: Must have earned an A or B in Biology as a 9th grade student. Must be concurrently enrolled in Algebra II/Trigonometry or higher level math.**

Chemistry is designed primarily for the college-bound students planning further study in the sciences & related technological fields. Areas covered include: concepts of matter and energy, chemical reactions, behavior of gases and kinetic theory, atomic structure, periodicity, chemical bonding, gas laws, moles, concentrations, nuclear and thermochemistry. Students will use math skills from algebra II and beyond to support their learning. Lab investigations will encompass observational aspects and data analysis. ***NCAA approved for student-athletes.**

***AP Chemistry [[Promo Video](#)]/ or CHEM 171 and CHEM 171L through EWU**

11, 12 (Year)

Course fulfills .5 of a physical science education credit.

Prerequisite: Chemistry

AP Chemistry is designed to be the equivalent of an introductory college-level course. For some students, this course enables them to undertake as freshmen, second-year work in the chemistry sequence in college or to register for courses in other fields where general chemistry is a prerequisite. This course will cover nine units; Atomic Structure and Properties, Molecular and Ionic Compound Structure and Properties, Intermolecular Forces and Properties, Chemical Reactions, Kinetics, Thermodynamics, Equilibrium, Acids and Bases, and Applications of Thermodynamics. The laboratory work will be equivalent to a first-year college chemistry course and will require a higher degree of technique, analysis, and accuracy than what is expected in general chemistry.

This course will use all knowledge from General Chemistry, and thus will move at a faster pace allowing a broader range of topics to be covered and in greater depth. More emphasis will be placed on using mathematical models and problem-solving skills in combination with conceptual understanding.

This course also prepares students to take the AP Exam in May. ***NCAA approved for student-athletes.**

AP Chemistry students also have the option of taking this course as a dual enrollment course through Eastern Washington University. Students will need to sign up for CHEM 171 and CHEM 171L, and earn a C grade or higher in the class to earn 5 transferable college credits. Students do not need to take the AP exam to earn these credits. There is a cost associated with this option of approximately \$325.

Advanced Placement (AP) Biology A & B

10, 11, 12 (Year)

Course fulfills a biological science education credit.

Prerequisite: Algebra 1 or Principles of Biomedical Science (B or better), Chemistry strongly recommended

The major emphasis in the course will be a thorough development of major biological concepts, an involvement in lab activities in which students use investigative techniques, development of laboratory skills, and an examination of contemporary problems in the biological sciences and related fields. These will be taught on a freshman college level. Note: Students will have the option of taking the Advanced Placement Test in May and, depending on their score, receive college credit and/or advanced placement at most colleges and universities.

***NCAA approved for student-athletes.**

Physics A & B

11,12 (Year)

Course fulfills a physical science education credit.

Prerequisite: Algebra II/Trigonometry

The purpose of this course is to give students a basic understanding of physics, the study of the natural world. Areas covered include motion, Newton's Laws, momentum, energy, fluid dynamics, thermodynamics, electricity and magnetism. Students will gain high level thinking skills such as problem solving, data analysis, and proportional reasoning. This course is great for students pursuing engineering or other fields related to math and science. Since physics studies how the physical world works, the knowledge you gain will apply to your life outside of the classroom. Concepts and equations will open your eyes to things you have already been experiencing.

Applied Physics A & B [[Promo Video](#)]

11, 12 (Year)

Course fulfills a physical science education credit.

Prerequisite: Algebra II, Geometry

Applied Physics will build on your previous knowledge of physical science. You will experience physics by designing, building, and testing prototypes that interact with our physical world - rocketry, aviation, or anything else that you can make move. No building or prototyping experience is needed.

Applied Physics is a great stepping stone to a more advanced physics program.

Advanced Placement (AP) Physics I A & B

11,12 (Year)

Course fulfills a physical science education credit.

Prerequisite: Algebra II/Trigonometry, Chemistry

Other Info: Students will take the AP exam in the spring.

This course provides a thorough introduction to algebra-based physics, in particular Newtonian mechanics. An emphasis is placed on the use of laboratory experiences to develop and further an understanding of the concepts. The course is equivalent to a first-semester college course in algebra-based physics and is not the usual preparation for more advanced physics and engineering courses. The AP Physics 1 exam covers topics in Newtonian mechanics; work, energy and power; and mechanical waves and sound. The course provides good background knowledge for engineering majors. ***NCAA approved for student-athletes.**

Human Anatomy A & B

11, 12 (Students can take this class for either a Semester or a Year)

Course fulfills .5 of a biological science education credit.

Suggested Prerequisites: Biology and IPS or Chemistry

This course is designed for the student considering a career in the healthcare industry and/or has an interest in the human body and science. A working knowledge of the fundamentals of human body structure and function will be taught. Each semester will focus on different human body systems (tissues, integument (skin), skeletal, muscular, nervous, endocrine, cardiovascular, respiratory, digestive, and urinary) and will have separate dissections (bones, brain, eye, heart, kidney, rabbit). ***NCAA approved for student-athletes.**

Environmental Science A & B

11, 12 (Students can take this class for one semester, or for the entire year)

Prerequisite: IPS and Biology

Environmental science is a course that studies the resources and systems that support life on earth. Students will gain an understanding of how these systems function, as well as how they can be impacted by human activities. In studying these concepts, emphasis will be placed on environmental questions and challenges that are specific to Washington State, and the Pacific Northwest as a whole. Students will leave the course with knowledge of environmental challenges they will encounter as citizens in our region, including approaches to addressing these challenges. Course content is delivered through a variety of activities, including lab investigations, field activities, exploratory projects, guest speakers, and direct instruction. ***NCAA approved for student-athletes.**

Advanced Placement (AP) Environmental Science A & B [\[Promo Video\]](#)

11, 12 (Year)

Course fulfills a biological science education credit.

Prerequisite: Biology and Chemistry

AP Environmental Science (APES) is about gaining an understanding of the relationship between humans and the natural world. Students learn about how earth's systems function, and how they are interconnected with one another. The course also explores how humans acquire the resources we need from the environment, and how our activities can impact the natural world around us. A student who takes APES will leave the course with an understanding of the environmental issues that our world currently faces, and how people are

working towards solutions for these issues.

The course also focuses on preparing students to pass the AP Environmental Science Exam, which provides the opportunity to earn credit for an introductory science course at most colleges and universities. Course content is delivered through a variety of activities, including lab investigations, field activities, exploratory projects, guest speakers, and direct instruction. ***NCAA approved for student-athletes.**

Social Studies

The Social Studies curriculum is designed to provide an understanding of historical accomplishments and the nature and characteristics of human behavior, language, and family life. Knowledge gained from the required and elective courses will help the student become a contributing citizen and an individual capable of successful social interaction.

Courses Offered - *approved NCAA core course

<ul style="list-style-type: none">● *World History A & B● *AP World History A & B● *Honors Humanities of the World/Social Studies A & B● *U. S. History A & B● *AP U.S. History A & B	<ul style="list-style-type: none">● *Honors Junior Humanities● *Citizenship A & B● *AP United States Government & Politics A & B● *Psychology● * AP Psychology A & B
---	--

World History A & B

10 (Year)

World History A: The first semester of World History briefly examines the ancient and classical civilizations of both the western and eastern worlds, followed by the cultural, political and social revolutions that transformed them. Throughout the semester, students will consider the impact these societies and their beliefs had on the civilizations to follow.

World History B: The second semester of World History emphasizes the emergence of the modern world. Students will determine how nationalism and imperialism fueled the events of the twentieth century and how these ideas have created the current global environment.

These classes, if taken both semesters, satisfy the sophomore social studies requirement.

Advanced Placement (AP) World History A & B

10 (Year)

In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

AP World History: Modern is designed to be the equivalent of an introductory college or university survey of modern world history.

There are no prerequisites for AP World History: Modern. Students should be able to read a college-level textbook and write grammatically correct, complete sentences.

Honors Sophomore Humanities A & B [[Promo Video](#)]

10 (Year, Two-period block)

A study of Human Nature through the complementary lenses of Literature and World History. This program uses an integrated, team-taught approach and is designed to identify and analyze the themes and tendencies of Humanity throughout time and across cultures. Students will analyze ideas, behaviors, attitudes that contribute to human flourishing as well as those that cause humans to diminish. Expectations are high, but all who are willing to work and learn are welcome to apply. Note: Cross-referenced under Social Studies. This course, if taken both semesters, may be used to satisfy the sophomore English and Social Studies requirements. This is an Honors level course which is reflected on student transcripts.

U.S. History A & B

11 (Year)

U. S. History A includes the history of American life, including constitutional, political, social, economic, and cultural development from Industrialization through the Great Depression. U.S. History B continues the overview of American life focusing on the time period from World War II to the present.

Advanced Placement (AP) U.S. History A & B [[Informational Slides](#)]

11 (Year)

This course is a freshman, college-level United States History class. Students will study the history and government of the United States from colonization to the present. Emphasis will be on historical research of both primary and secondary natures. The writing of historical thesis essays will also be taught and practiced. Students are encouraged to take the Advanced Placement American History exam in May and, depending on their score, receive college credit and/or advanced placement at most colleges and universities throughout the United States. This class fulfills the junior year U.S. History requirement and also may be taken as a senior elective choice. This class does not satisfy the senior social studies requirement.

Honors Junior Humanities [[Promo Video](#)]

11 (Year, Two-period block)

Honors Junior Humanities is an integrated, team-taught course that explores US History and American Literature as well as artistic, philosophical, social, and cultural movements that contributed to and shaped American society. Throughout the year, learning is organized into the following four thematic units: the Nature of Truth, Questions of Justice, Implications of Progress, and Self & Collective Identity. The class is driven by small and large group discussions, classroom debates, critical thinking, and the exploration of multiple perspectives. This course provides exposure to compelling and unique sources and experiences. Honors Junior Humanities is also designed to meet the needs of students who desire an honors level classroom experience with a balanced amount of homework. Expectations are high, but all who are willing to work and learn are welcome. Note: Cross-referenced under Social Studies. This course, if taken both semesters, may be used to satisfy the Junior English and Social Studies requirements.

Citizenship A & B

12 (Year)

What does it mean to be a citizen of the United States? What is your role as a citizen within your home, school, community, state, country, and in the world? American Citizenship class provides you with the opportunity to explore these questions in your search for answers. Over the course of the school year, you'll learn about the foundations of our country at the **local**, state and federal level, and will be given the opportunity to register to vote and participate in the electoral process. You'll delve into issues like Human Rights, the Environment and Globalization. You will learn where we, as a country, are headed, and how you can be an integral part of that dynamic journey. Beyond the classroom curriculum, you will also work toward completing your Citizenship inventory as you prepare for your Senior Presentation near the end of the year.

AP U.S. Government and Politics A & B [[Promo Video](#)]

12 (Year)

This is a college level course that includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. The course will give students familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Students will become acquainted with a variety of theoretical perspectives and explanations for various behaviors and outcomes. Note: Students will have the option of taking the Advanced Placement Test in May and, depending on their score, receive college credit and/or advanced placement at most colleges and universities. This course satisfies the senior social studies requirement.

Psychology A & B

10 - 12 (Year)

This course is an introduction to basic psychology and an examination of human behavior and mental processes with an applied focus to your life and life experiences. This elective has an academic focus while learning to apply psychology concepts. Psychology A will focus on the history of psychology and biological bases of behavior including the brain, sensation and perception, states of consciousness, learning and cognition. Emphasis will be placed on active involvement in class discussions and group activities. Students can take either Psychology A or Psychology B or both courses depending on scheduling and credit needs. NCAA Core.

[Advanced Placement \(AP\) Psychology](#) [[Promo Video](#)]

10 - 12 (Year) This course is the equivalent of a college-level introductory psychology course intended to introduce students to the systematic and scientific study of human behavior and mental processes. Student study habits and participation should reflect this fact. Primarily, the course will explore the psychological facts, principles and phenomena associated with each of the major subfields of psychology through inquiry-based investigations as students explore concepts like the biological bases of behavior, sensation and perception, learning and cognition, motivation and emotion, personality, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Students will focus on past and current research and case studies to evaluate ethics and research methods used in the psychology field. NCAA Core.

Special Education

The following courses are available for students who qualify through the Mead School District Special Services Department. These courses help students meet requirements in math, English and vocational areas for graduation.

Courses Offered - *approved NCAA core course

<ul style="list-style-type: none">● Life Skills● *Resource English● *Resource Math	<ul style="list-style-type: none">● Work Based Learning● Developmental Learning Center (DLC)
--	---

Life Skills

9, 10, 11, 12 (Year) Two hours

Prerequisite: Students must qualify through the District Special Services Department

Instructions will be directed toward students acquiring the personal-social, daily living, and occupational skills needed to live healthy and productive lives. Students will be exposed to a variety of activities aimed toward being responsible for one's actions, managing emotions, developing communication skills, making healthy decisions and solving problems.

Resource English

9, 10, 11, 12 (Year)

Prerequisite: Students must qualify through the District's Special Services Department

Instruction will emphasize reading and/or written language appropriate to each individual student's level. Instruction is provided in a smaller learning environment and on an individual basis. Teaching will address individual learning needs with concepts taught through multiple intelligences to develop study skill techniques and remediate reading and/or writing deficits.

Resource Math

9, 10, 11, 12 (Year)

Prerequisite: Students must qualify through the District's Special Services Department

This class provides an individualized math program to remediate and maintain student's abilities in math-computation and reasoning skills. Students will be instructed in basic math skills through introductory algebra for independent living and occupational success.

Work Based Learning

11, 12 (Semester)

Prerequisite: Students must qualify through the District's Special Services Department, Permission of Instructor

Qualified students will have an opportunity to gain a better understanding of, and experience the real world of work. These experiences range from a student's first opportunity to experience on-the-job training in the district and/or out in the community. An emphasis is placed on developing personal-social skills and attitudes for success in the workplace. Students work for credit/grade. Whenever possible, transportation is provided.

Developmental Learning Center (DLC)

Prerequisite: Students must qualify through the District's Special Services Department for placement in the program.

Freshman through age 21 (Year) 5 hours

The Developmental Learning Centers, or DLC's, are District wide programs for students who qualify for special education services and have an Individualized Educational Program (IEP). The curriculum is highly individualized and based on each student's IEP. All of the programs in the DLC are non-graded. Students enrolled in Mead High School's Developmental Learning Center programs are provided with a continuum of services to meet their individual needs.

Students in 9th and 10th grade focus on functional academics, communication skills, and development of social and adaptive skills. Students also participate in monthly community outings in order to learn and practice appropriate social behavior in the community. Students receive training provided by the Spokane Transit Authority (STA) on how to ride and use the bus services. Students focus on skills needed in the community in order to support their individual goals of independence and self-advocacy.

As students' progress into 11th and 12th grade, they continue to work on academic skills, functional academics, adaptive social skills, and communication skills based on their individual needs. Students participate in a work based learning program within our building and in the community. Students are provided the opportunity to work on pre-vocational skills in order to best support their post-secondary goals and to prepare them for the transition program. Instruction in community-based learning is provided and access to the community occurs on a weekly basis. Students focus on skills needed in the community in order to support their individual goals of independence and self-advocacy.

Once the students reach the 12th grade and beyond, they become eligible to be a part of Project DISCOVER, Mead High School's DLC Transition Program. Students enrolled in Project DISCOVER have typically completed 4 years of high school, passed state tests, and have walked in their Graduation Ceremonies. During their 3 years in Transition, students will learn to work from 9-15 hours per week at Internships with local businesses. This program also includes instruction in self-awareness, independent living skills and self-advocacy skills. Students also begin building connections with community agencies who can provide support for them as they age out of high school and become independent members of the community. Upon completion of this program, students will have completed a Transition Portfolio which includes a cover letter, resume, list of references, a skills and accommodations document and worksite photos.

World Languages

Communication and cultural understanding have become essential in the 21st century. Because of technology, transportation and trade, language learning and proficiency are important tools in both our careers and daily lives. Due to the colleges' and real world's emphasis on language proficiency—actually using the language to communicate—the Mead High School World Language Department highly recommends a minimum of three credits, and preferably four, same-language study. Colleges often test language proficiency at entrance.

*Eastern Washington University Partnership (Level III) - Students may choose to take 3rd year Spanish for 5 quarter credits through Eastern Washington University in addition to receiving Mead High School credit. All courses are taught at Mead High School using EWU's curriculum. Students purchase college credit and their own textbooks if the course is taken for college credit.

Courses Offered - *approved NCAA core course

<ul style="list-style-type: none">● *French I A & B● *French II A & B● *French III A & B● *French IV A & B	<ul style="list-style-type: none">● *German I A & B● *German II A & B● *German III A & B● *German IV A & B	<ul style="list-style-type: none">● *Spanish I A & B● *Spanish II A & B● *Spanish III A & B● *Spanish IV A & B
---	---	---

French I A & B

9, 10, 11, 12 (Year)

This class provides students with a basic knowledge of French and the culture of prominent French speaking countries. It focuses on the acquisition of practical communicative skills. Basic grammar and essential vocabulary are taught through gestures, games, stories, and songs. Students learn to communicate effectively and with confidence in French on a limited range of topics relating to everyday situations.

French II A and B

10, 11, 12 (Year)

Prerequisite: Proficiency in French I

The aim of French II is to continue the adventure of French I. This class continues to focus on the acquisition of practical communicative skills, expanding on vocab themes and introducing more complex grammatical structures. Students will be speaking and writing in the past as well as the present and immediate future. Culture and theme units include fashion and shopping, travel, leisure time, seasonal activities, and daily routine at home and abroad. The students will be introduced to French literature as we begin to read short stories. We will continue to strengthen our conversational skills through role play and games.

French III A and B

11, 12 (Year)

Prerequisite: Proficiency in French II

This class is a continuation of French I and II, and provides an increased emphasis on French literature and conversation. Reading selections and novels are used as a basis for further oral, written and cultural study. French III and French IV will work together in a combined class using an alternating curriculum. Students will focus on increasing proficiency in reading, writing, speaking and listening. We will continue to examine French culture and increase our listening comprehension through a selection of French films and music.

French IV A and B

12 (Year)

Prerequisite: Proficiency in French III

This class continues the emphasis on fluency and comprehension of major French literary works. French III and French IV will work together in a combined class using an alternating curriculum. Students will continue to focus on fluency and proficiency in reading, writing, speaking, and listening. This class will continue to challenge students to expand on their cultural understanding of prominent French speaking countries through literature, conversation, film, music, and role play. **Students who are enrolled in the fourth year of a language are recommended to test in the spring for the Seal of Biliteracy. The Seal of Biliteracy recognizes students who have studied and attained proficiency in two or more languages by high school graduation. The Seal of Biliteracy takes the form of a seal that appears on the transcript or diploma of the graduating senior and is a statement of accomplishment for future employers and college admissions.**

German I A & B [[Promo Video](#)]

9, 10, 11, 12 (Year)

Students will be introduced to the language and culture of the German speaking countries of the world. This course will develop the four essential language skills of oral comprehension, speaking, reading, and writing. Focus will be on topics surrounding the student including: family, school, weather, clothing, hobbies, sports, house and home and likes and dislikes.

German II A & B [[Promo Video](#)]

10, 11, 12 (Year)

Prerequisite: Proficiency in German I

Students will expand their knowledge of the language and culture of the German speaking countries of the world. This course will further develop the four essential language skills developed in the first year. Emphasis will be on oral and written work. Students will embark on a fictitious trip to Germany communicating in real-life scenarios including: checking in at an airport, train station, and hotel, purchasing tickets to a concert, film, and performance, ordering from a restaurant and shopping in a grocery store.

German III A & B [[Promo Video](#)]

11, 12 (Year)

Prerequisite: Proficiency in German II

Students will further expand their knowledge of the language and culture of the German speaking countries of the world. This course will allow students to review and integrate the four essential language skills. Students will be expected to refine their skills and work toward greater proficiency. Students will be working in a combination 3rd & 4th year program using alternating curriculum. Odd year starts will be focused on the culture, music and history of Germany. Even year starts will be focused on the language, literature and film of Germany.

German IV A & B [[Promo Video](#)]

11, 12 (Year)

Prerequisite: Proficiency in German III

Students will further expand their knowledge of the language and culture of the German speaking countries of the world. This course will allow students to review and integrate the four essential language skills. Students will be expected to refine their skills and work toward greater proficiency. Students will be working in a combination 3rd & 4th year program. Odd year starts will be focused on the culture and history of Germany. Even year starts will be focused on language, literature and film of Germany. **Students who are enrolled in the 4th year of a language are recommended to test in the spring for the Seal of Biliteracy. The Seal of Biliteracy recognizes students who have studied and attained proficiency in two or more languages by high school graduation. The Seal of Biliteracy takes the form of a seal that appears on the transcript or diploma of the graduating senior and is a statement of accomplishment for future employers and for college admissions.**

Spanish I A & B

9, 10, 11 (Year)

Students will be introduced to the language and culture of Spanish-speaking countries through listening, speaking, reading, and writing in the present tense. Various interactive learning methods will be used in this foundation course in order to create and enhance student comprehension of the language. Topics of study will include school, weather, clothing, food, family, and home. It is recommended that students pass Spanish I with at least a "C" in order to advance to Spanish II.

Spanish II A & B

9, 10, 11, 12 (Year)

Prerequisite: Proficiency in Spanish I

This course advances student understanding of the vocabulary, grammar, and cultural studies of Spanish I through the use of various interactive learning methods. Students will deepen their proficiency levels as they focus on listening, speaking, reading, and writing the target language in both the present and the past tenses. It is recommended that students pass Spanish II with at least a "C" in order to advance to Spanish III.

Spanish III A & B – Spanish 103 (EWU)

10, 11, 12 (Year)

Prerequisite: Proficiency in Spanish II

This course focuses on increasing knowledge of vocabulary and grammatical concepts, as well as improving comprehension and speaking skills. Students will engage in situations and role-play to bring the vocabulary and grammar to life. Themes in short readings include customs, history and the environment of the Spanish speaking countries around the world. Online resources, tools and telenovelas complement learning and a Supersite access key is required for purchase.

*This course is accredited through Eastern Washington University and 5 EWU credits can be purchased. These credits are transferable college credits.

Spanish IV A & B – Spanish 113 (EWU)

11, 12 (Year)

Prerequisite: Proficiency in Spanish III

Students will engage in intensive oral work to develop towards fluency. Short stories and poetry will enrich students' cultural awareness of poverty, immigration, social justice and war. All previous grammar will be reviewed through the context of our readings, movies and documentaries. This class will be conducted primarily in Spanish. Authentic Spanish media such as news, film and music will enhance cultural appreciation. **Students who are enrolled in the fourth year of a language are recommended to test in the spring for the Seal of Biliteracy. The Seal of Biliteracy recognizes students who have studied and attained proficiency in two or more languages by high school graduation. The Seal of Biliteracy takes the form of a seal that appears on the transcript or diploma of the graduating senior and is a statement of accomplishment for future employers and college admissions.**

Spanish V

11, 12 (Year)

Prerequisite: Proficiency in Spanish IV

This course is the fifth step in advanced-level Spanish and forms a part of the SPAN 1-2-103-4-5/Independent study sequence. Spanish 5 will offer opportunities to continue to develop grammar, vocabulary, reading, oral practice, and writing. Students will continue to improve and develop their skills in the area of reading, writing, speaking and listening as well as have the opportunity to introduce Spanish lessons at Brentwood Elementary. The goal for Spanish 5 students is to share their love of Spanish and introduce lifelong language skills to their neighbors. Students will be responsible and accountable to plan and implement their age and level appropriate lessons weekly. Spanish 5 students will participate in daily entries and some assigned readings with students in 4th year Spanish.