9th Grade

Advanced Technical Training

Adv. Tech Syllabus.pdf

Open to: Freshmen
Prerequisites: This course is open to students who successfully complete the Planning and Organizing Standard in Flexible Learning Time and have a GPA of 3.0 or higher.
Required: No
Credits: 1
Length: 3 Quarters

Description: This course is open to students who successfully complete the Planning and Organizing Standard in Flexible Learning Time and have a GPA of 3.0 or higher. Students will have access to extra technical coursework as learning opportunities. Students will have access to the four technology teachers for assistance if needed.

Teacher: Sarah Bandlamudi
Teacher: Jenni Bradford
Teacher: Nathan Bushard
Teacher: Duane Erickson
Teacher: Erica Grell
Teacher: Josh Kitzerow
Teacher: Beth Richtsmeier
Teacher: Ben Taylor

English 1A

ELA Standards.pdf

ELA Syllabus.pdf

Course Information:

Open to: Freshmen
Prerequisites: None
Required: Yes
Credits: 1
Length: 1 Semester
Description: As freshmen, students review written language conventions, expand vocabulary, practice the writing process, learn presentation skills, prepare and present informative group presentations, read from a variety of sources and genres to strengthen process and comprehension skills, and participate in project-based activities. The novel selection for first semester is *To Kill a Mockingbird*

Teacher: Katie Wiese

English 1B

ELA Standards.pdf

ELA Syllabus.pdf

Course Information:

Open to: Freshmen
Prerequisites: English 1A
Required: Yes
Credits: 1
Length: 1 Semester
Description: As freshmen, students review written language conventions, expand vocabulary, practice the writing process, learn presentation skills, present impromptu speeches, read from a variety of sources and genres to strengthen process and comprehension skills, and participate in an integrated project-based activity. The novel selection for second semester is Isaac Asimov's Fantastic Voyage.

Teacher: Katie Wiese

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HS Math 1A

Math 1 Syllabus 2025-2026.pdf

Open to: Freshman

Required: Yes

Credits: 1

Length: Semester

Description: Common Core Math 1 is the foundation upon which further mathematical study will be based. Students will extend upon the mathematics learned in the middle grades. Students will study linear and exponential equations and functions. Students will use linear regression and perform data analysis. They will also cover geometry topics such as simple proofs, congruence, and transformations.

Teacher: Gary Porper

HS Math 1B

Math 1 Syllabus.pdf

Open to: Freshman

Required: Yes

Credits: 1

Length: Semester

Description: Common Core Math 1 is the foundation upon which further mathematical study will be based. Students will extend upon the mathematics learned in the middle grades. Students will study linear and exponential equations and functions. Students will use linear regression and perform data analysis. They will also cover geometry topics such as simple proofs, congruence, and transformations.

Teacher: Gary Porper

HS Math 2A-Advanced

Math 2 Advanced Syllabus 2025-2026.pdf

Open to: Freshmen

Prerequisites: Successful completion of CC Math 1 and Math 1A/B Advanced with and A, B or equivalent

Required: No

Credits: 1

Length: 1 semester

Description: Common Core Math 2 expands into quadratic, absolute value, and other functions. Students will explore polynomial equations and factoring, and probability and its applications. Coverage of geometry topics extends to polygon relationships, proofs, similarity, trigonometry, circles and three dimensional figures.

HS Math 2B-Advanced

Math 2 Syllabus.pdf

Open to: Freshmen

Prerequisites: Successful completion of CC Math 1 and Math 1 or equivalent with an A or B

Required: No

Credits: 1

Length: 1 semester

Description: Common Core Math 2 expands into quadratic, absolute value, and other functions. Students will explore polynomial equations and factoring, and probability and its applications. Coverage of geometry topics extends to polygon relationships, proofs, similarity, trigonometry, circles and three dimensional figures.

Computing Core

CIC Standards.pdf CIC syllabus 2025-2026.pdf

Course Information:

Open to: Freshmen

Prerequisites: None

Required: Yes

Credits: 1

Length: 1 Semester

Description: The goal of this course is to expose all freshmen to our school's focus areas. Topics included but not limited to are: electronics, IT services, cyber security, video editing, graphic design, web design and development, computer programming and the social and ethical issues surrounding each of these topics.

Teacher: Nathan Bushard
Teacher: Erica Grell
Teacher: Stephen Mathie
Teacher: Ben Taylor
Teacher: Katie Wiese

Earth Science A

ES-Standard-CommonCore-2023.pdf ES-TT Syllabus-2025-2026.pdf

Open to:

FALL Semester Freshmen,

Prerequisites:

Required: Yes

Credits: 1

Length: 1 Semester

Description: This course provides students with an understanding of the different parts of earth's systems. These systems are explored through areas of physical and historical geology, meteorology, and astronomy. Emphasis is placed on interactions between the earth's natural systems and humans. With the use of visual aids, models, and computers, this course is designed to discover earth science as a hand-on experience.

Teacher: Sarah Bandlamudi

Earth Science B

ES Standards-Core.pdf ES-TT-Syllbaus-2024-25.pdf

Open to:

SPRING Semester ,

Prerequisites:

Required: Yes

Credits: 1

Length: 1 Semester

Description: This course provides students with an understanding of the different parts of earth's systems. These systems are explored through areas of physical and historical geology, meteorology, and astronomy. Emphasis is placed on interactions between the earth's natural systems and humans. With the use of visual aids, models, and computers, this course is designed to discover earth science as a hand-on experience.

Teacher: Jeff Bodell

Integrated Mars Project 2026 - OFF

IntegratedMars2026.pdf

Integrated Mars: January 2026

The Integrated Mars Project is an interdisciplinary project for Earth Science, English, Math, and Speech in which students investigate Mars's geology and habitability, analyze historical and literary perspectives through science fiction, and calculate mathematical modeling to space-travel problems.

Students will deliver a final individual presentation demonstrating content knowledge, evidence-based reasoning, and professional communication--graded across all four courses with staged milestones, required citations, and a shared rubric.

Teacher: Sarah Bandlamudi
Teacher: Jeff Bodell
Teacher: Erica Grell
Teacher: Gary Porper
Teacher: Katie Wiese

Internet Core

Freshmen Tech Competency Grid CIC Standards.pdf

Internet Core syllabus 2025-2026.pdf

Course Information: FCIC

Open to:	Freshmen
Prerequisites:	Computing Core
Required:	Yes
Credits:	1
Length:	1 Semester
Description:	This course includes computing fundamentals such as: processing and analyzing data, software, hardware, troubleshooting, programming, networking, media communications, problem solving, and the social and ethical issues surrounding technology. Other course sections include basic web design, basic programming, and basic electronics. Extensive coverage of ethical, security and privacy issues are also discussed. The competency for this course is the IT Fundamentals industry certification which is the precursory exam for the CompTIA A+ certification.

Teacher: Nathan Bushard
Teacher: Erica Grell
Teacher: Josh Kitzerow
Teacher: Stephen Mathie
Teacher: Ben Taylor

School To Work

STW Standards.pdf

STW Syllabus.pdf

Course Information: School to Work

Open to:	Freshmen
Prerequisites:	None
Required:	Yes
Credits:	1
Length:	1 Semester (spread throughout the year)
Description:	As Freshmen, students will be introduced to career and industry expectations, such as: Leadership, Teamwork, Communication, Professional Dress, Promptness, Stress, Attitude, and Etiquette/Netiquette.

Teacher: Erica Grell
Teacher: Katie Wiese

Strategies for Success 1

S 4S-Standa

S yllabus-

Course information:

Open to: Freshmen

Prerequisites: None

rds.pdf S4S.pdf

Required: Yes

Credits: 1

Length: 1 Semester

Description: All Freshmen are enrolled in a Strategies for Success (S4S) class in order to help prepare students for success in high school and /or post-secondary education. This course is designed to provide extra time and assistance to our freshmen during the instructional day. Primarily, students will use this time to complete academic and technical classwork from all other courses combined. Instructors may also cover various topics throughout the year. Course topics may vary according to the students involved, but typically include: organizational skills, social etiquette, and professionalism. This is a pass/fail course and does not apply to a student's GPA.

Teacher: Katie Wiese

Strategies for Success 2

S4S-Standards.pdf Syllabus-S4S.pdf

Course information:

Open to: Freshmen

Prerequisites: None

Required: Yes

Credits: 1

Length: 1 Semester

Description: All Freshmen are enrolled in a Strategies for Success (S4S) class in order to help prepare students for success in high school and /or post-secondary education. This course is designed to provide extra time and assistance to our freshmen during the instructional day. Primarily, students will use this time to complete academic and technical classwork from all other courses combined. Instructors may also cover various topics throughout the year. Course topics may vary according to the students involved, but typically include: organizational skills, social etiquette, and professionalism. This is a pass/fail course and does not apply to a student's GPA.

Teacher: Erica Grell

Teacher: Katie Wiese

Spanish 1A

Competencies.pdf Syllabus.pdf

Course information

Open to: Freshmen,

Prerequisites:

Required: Yes

Credits: 1

Length: 1 semester

Description: This class introduces students to basic Spanish conversation, vocabulary, grammar, history, and culture.

Teacher: Andrew Pence

Spanish 1B

Competencies.pdf Syllabus.pdf

Course information

Open to: Freshmen,

Prerequisites:

Required: Yes

Credits: 1

Length: 1 semester

Description: This class introduces students to basic Spanish conversation, vocabulary, grammar, history, and culture.

Teacher: Andrew Pence

Technology Tools A

TechTools-Standards-.pdf TechToolsSyllabus-2025-2026.pdf

Open to: **Freshmen**,

Prerequisites:

Required: Yes

Credits: 1

Length: 1 Semester

Description: Technology Tools is a course designed to integrate elements of technology, professionalism and academics in Earth Science. Participants will utilize different programs to complete project based assignments related to Science, Math and English. This course utilizes MS Office ProPlus 365 for the various integrated activities .
Tech Tools is a required course and students will have to pass the IC3 certification exam to earn credit.

Teacher: Sarah Bandlamudi
Teacher: Erica Grell

Technology Tools B

TechTools-Standards-.pdf TechToolsSyllabus-2024-25.pdf

Open to: Freshmen,

Prerequisites: Technology Tools A
Required: Yes
Credits: 1
Length: 1 Semester
Description: Technology Tools is a course designed to integrate elements of technology, professionalism and academics in Earth Science. Participants will utilize different programs to complete project based assignments related to Science, Math and English. This course utilizes MS Office 2016 for the various integrated activities .

Teacher: Jeff Bodell

10th Grade

Information Systems Support - 2

Information Systems Support 1-2 Syllabus.pdf

Course Information: CompTIA

Open to: Sophomores

Prerequisites: Computing and Internet Core / ISS 1 and Audition Passed with PA

Required: Yes

Credits: 1

Length: 1 Quarter

Description: Students will continue using TestOut to study computer maintenance and repair, basic computer/hardware installations, and troubleshooting. Students will learn to work with mobile devices, and learn about system management and security. This course will also introduces students to basic troubleshooting and file management skills. At the end of the semester, students are expected to achieve the PCPro certification. It is possible to have Fast Tracked this course during ISS 1 or during quarter 3 which would allow students to take a related Network Administration course.

Teacher: Nathan Bushard
Teacher: Josh Kitzerow

Biology 1A

25-26 Syllabus.pdf

Teacher: McKenna Gafford
Teacher: Kimberly Jensen

Information Systems Support - 1

Computer Support Standards.pdf

Information Systems Support 1-2 Syllabus.pdf

Course Information: CompTIA Learn A+

Open to: Sophomores

Prerequisites: Computing and Internet Core and Audition Passed with PA

Required: Yes

Credits: 1

Length: 1 Semester

Description: Students will predominantly use CompTIA CertMaster to study computer maintenance and repair, basic computer/hardware installations, and troubleshooting. Students will learn to identify various parts of a computer and Network. This course will introduce students to basic troubleshooting skills, networking skills, and customer service.

Teacher: Nathan Bushard
Teacher: Josh Kitzerow

Biology 1B

Teacher: McKenna Gafford

Business 1

Business 1 25-26.pdf

Open to: Sophomores
Prerequisites: None required
Required: Yes
Credits: 1 credit for the year
Length: 1 year
Description: This course is designed to introduce students to the following business concepts: time management, ethics, business relationships, customer service, organization structures, technology in management, and brand promise. This class is one portion of the overall MTCHS business program. There are no prerequisites required for this class.

Teacher: Leah Heesch

Health and Wellness MTCHS

25-26 Syllabus.pdf

Teacher: McKenna Gafford
Teacher: Kimberly Jensen

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CC English 2A

CC 2A Syllabus 2025.pdf

Open to: Sophomores
Prerequisites: Successful completion of English 1A & 1B or equivalent course.
Required: Yes
Credits: 2
Length: 1 year
Description: Students review written language conventions and the writing process, expand vocabulary, practice technical communication writing styles, model a variety of technical document formats, refine presentation skills, and read/analyze a variety of literary works.

Teacher: Karl vonderehe

English 2B

English 2B Syllabus 2026.pdf

Open to: Sophomores
Prerequisites: Successful completion of English 1A & 1B or equivalent course.
Required: Yes
Credits: 2
Length: 1 year
Description: Students review written language conventions and the writing process, expand vocabulary, practice technical communication writing styles, model a variety of technical document formats, refine presentation skills, read and analyze a variety of works of literature, and prepare pathway applications.

Teacher: Karl vonderehe

HS Math 2A-Garey

Math 2 Syllabus 2025-2026.pdf

Open to: Freshmen

Prerequisites: Successful completion of CC Math 1 and Math 1A/B

Required: No

Credits: 1

Length: 1 semester

Description: Common Core Math 2 expands into quadratic, absolute value, and other functions. Students will explore polynomial equations and factoring, and probability and its applications. Coverage of geometry topics extends to polygon relationships, proofs, similarity, trigonometry, circles and three dimensional figures.

HS Math 2A-Porper

Math2Syllabus20252026.pdf

Open to: Sophomores

Prerequisites: CC HS Math 1 A&B

Required: Yes

Credits: 1

Length: Semester

Description: Common Core Math 1 and 2 expands into quadratic, absolute value, and other functions. Students will explore polynomial equations and factoring, and probability and its applications. Coverage of geometry topics extends to polygon relationships, proofs, similarity, trigonometry, circles and three dimensional figures.

Teacher: Gary Porper

HS Math 2B-Garey

Math 2 Syllabus.pdf

Open to: Freshmen

Prerequisites: Successful completion of CC Math 1 and Math 2A or equivalent

Required: No

Credits: 1

Length: 1 semester

Description: Common Core Math 2 expands into quadratic, absolute value, and other functions. Students will explore polynomial equations and factoring, and probability and its applications. Coverage of geometry topics extends to polygon relationships, proofs, similarity, trigonometry, circles and three dimensional figures.

HS Math 2B-Porper

Math2Syllabus20252026.pdf

Open to: Sophomores

Prerequisites: CC HS Math 1 A&B

Required: Yes

Credits: 1

Length: Semester

Description: Common Core Math 2 expands into quadratic, absolute value, and other functions. Students will explore polynomial equations and factoring, and probability and its applications. Coverage of geometry topics extends to polygon relationships, proofs, similarity, trigonometry, circles and three dimensional figures.

Teacher: Gary Porper

HS Math 3A-Advanced

Math 3 Syllabus 2025-2026.pdf

Open to: Sophomores

Prerequisites: Successful completion of CC Math 2 and HS Math 2A&B-Advanced with an A or B

Required: No

Credits: 1

Length: 1 semester

Description: Common Core Math 3 students will expand their understanding of area and volume with geometric modeling, which students will apply throughout the course as they learn new types of functions. Students will study polynomial, radical, logarithmic, rational, and trigonometric functions. They will also learn how visual displays and statistics relate to different types of data and probability distributions.

HS Math 3B-Advanced

Math 3 Syllabus.pdf

Open to: Sophomores

Prerequisites: Successful completion of CC Math 2 and HS Math 3A-Advanced with an A or B

Required: No

Credits: 1

Length: 1 semester

Description: Common Core Math 3 students will expand their understanding of area and volume with geometric modeling, which students will apply throughout the course as they learn new types of functions. Students will study polynomial, radical, logarithmic, rational, and trigonometric functions. They will also learn how visual displays and statistics relate to different types of data and probability distributions.

Computer Science 1A

Computer Science 1A.pdf

Programming_Software_Development_Program_Standards-1.pdf

Open to: Sophomores
Prerequisites: Computing and Internet Core AND Web Design 1 OR ISS 1 and Audition Passed with PA
Required: No
Credits: 0.5
Length: 1 Quarter

Description: This course covers recognizing and writing syntactically correct JavaScript code, using data types supported by JavaScript, and being able to recognize and write JavaScript code that will logically solve a given problem.

Teacher: Stephen Mathie

Electronics 1A

Electronics 1A Syllabus.pdf

Electronics Technology Standards.pdf

Open to: Sophomores
Prerequisites: Web Design 1 or Information Systems Support 1 and Audition Passed with PA
Required: No
Credits: 0.5
Length: 1 Quarter
Description: This course is intended to introduce basic electronic circuit building, electronic components, and schematics.

Teacher: Nathan Bushard
Teacher: Josh Kitzerow

Media Design 1

Media Design 1 Syllabus.pdf

Open to: Sophomores
Prerequisites: Computing and Internet Core, Web Design 1 and Audition Passed with PA
Required: No
Credits: 1
Length: 1 Semester

Description: This course covers Adobe certifications in Illustrator, Photoshop, and Premiere Pro. Students will focus on either Graphic Design or Video production.

Teacher: Ben Taylor

Networking 1A

Network 1A AWS Syllabus 2025-2026.pdf

Network Support Standards.pdf

Open to: Sophomores
Prerequisites: Computing and Internet Core, ISS 1 and 2 and Audition Passed with PA
Required: No
Credits: .5
Length: 1 Quarter

Description: This course covers an introduction to the Linux operating system, as well as an introduction to different scripting technologies. It will serve as a foundational course for more advanced topics such as networking, cybersecurity, and cloud platforms development, which are taken during the junior and senior years of the focus area.

Teacher: Nathan Bushard
Teacher: Erica Grell
Teacher: Josh Kitzerow

Networking 1B

Open to: Sophomores
Prerequisites: Computing and Internet Core, Information Systems Support 1, 2 and Audition Passed with PA
Required: No
Credits: 0.5
Length: 1 Quarter
Description: Students will begin their Cybersecurity and Network Administration focus area with a class in Linux. This is a foundation for all network administration and cybersecurity certifications and degrees.

Teacher: Nathan Bushard

Sophomore Project

ProjectStandards.pdf

In this project, Sophomores will:

- Research and understand the issues that our community faces.
- Develop one quality solution using current technologies.
- Learn by participating in service projects related to the issues.
- Reflect upon their experience and present their findings.

Teacher: Duane Erickson
Teacher: McKenna Gafford
Teacher: Vanessa Leyva
Teacher: Stephen Mathie
Teacher: Andrew Pence

Spanish 2A

Competencies(1).pdf Syllabus(1).pdf

Course information

Open to: Sophomores,
Prerequisites: Successful completion of Spanish 1
Required: No
Credits: 1
Length: 1 semester
Description: This class emphasizes Spanish conversation, vocabulary, structure, reading, writing, culture, and history. Conversational Spanish is encouraged.

Teacher: Andrew Pence

Spanish 2B

Competencies(1).pdf Syllabus(1).pdf

Course information

Open to: Sophomores,
Prerequisites: Successful completion of Spanish 1
Required: No
Credits: 1
Length: 1 semester
Description: This class emphasizes Spanish conversation, vocabulary, structure, reading, writing, culture, and history. Conversational Spanish is encouraged.

Teacher: Andrew Pence

US History-Comprehensive A

Core Standards.pdf History Syllabus.pdf

Open to: Sophomores
Prerequisites: None
Required: Yes
Credits: 1
Length: 1 Semester
Description: A survey of U.S. history, culture, and society from the British colonies to the 1920s. The class will integrate various sources (primary & secondary) from the various time periods in order to further enhance the curriculum. This course is a chronological and thematic survey of our nation's past, special emphasis is placed on historical cause and effect and events, movements, and people who have established & impacted the American past. The course promotes an appreciation and awareness of the richness of our history and institutions.

Teacher: McKenna Gafford

US History-Comprehensive B

Core Standards.pdf History Syllabus.pdf

Open to: Sophomores
Prerequisites: None
Required: Yes
Credits: 1
Length: 1 Semester
Description: A survey of U.S. history, culture, and society from The Roaring Twenties to the Cold War. The class will integrate literature from the various time periods in order to further enhance the curriculum. This course is a chronological and thematic survey of our nation's past, special emphasis is placed on historical cause and effect and events, movements, and people who have established & impacted the American past. The course promotes an appreciation and awareness of the richness of our history and institutions.

Teacher: McKenna Gafford

Web 1B

Web 1B.pdf

Open to: Sophomores
Prerequisites: Web Design 1, Computer Science 1A and Audition Passed with PA
Required: No
Credits: 0.5
Length: 1 Quarter
Description: This course covers JavaScript libraries and an introduction to WordPress.

Teacher: Stephen Mathie

Web Design 1

Web Design 1 25_26.pdf Web-Design-and-Development-Program-Standards..pdf

Open to: Sophomores
Prerequisites: Successful Completion of Computing and Internet Core and Audition Passed with PA
Required: No
Credits: 1
Length: 1 Semester
Description: This course has two distinct parts: HTML (Hypertext Markup Language), which includes HTML fundamentals, document structuring, and multimedia presentation, and CSS (Cascading Style Sheets), which includes CSS fundamentals and styling webpages.

Teacher: Erica Grell
Teacher: Stephen Mathie
Teacher: Ben Taylor

11th Grade

American Government A

Common Core Standards Government.pdf

Open to: Juniors
Prerequisites: None
Required: Yes
Credits: 1
Length: 1 Semester
Description: This course introduces students to the American political system. The course examines the structure and operation of the institutions of the U.S. federal government, introduces students to the approach and terminology associated with the field of political science, deepens student's awareness of the role of citizens, interest groups, political parties, and politicians within the American political system, and builds an understanding of the role of politics and strategy in the operation of government, and understand how they impact the processes that occur within the system. Further the course explores and instills a sense of civic duty and citizen participation.

Teacher: McKenna Gafford

American Government B

Common Core Standards Government.pdf

Government Syllabus.pdf

Open to: Juniors
Prerequisites: None
Required: Yes
Credits: 1
Length: 1 Semester
Description: This course introduces students to the American political system. The course examines the structure and operation of the institutions of the U.S. federal government, introduces students to the approach and terminology associated with the field of political science, deepens student's awareness of the role of citizens, interest groups, political parties, and politicians within the American political system, and builds an understanding of the role of politics and strategy in the operation of government, and understand how they impact the processes that occur within the system. Further the course explores and instills a sense of civic duty and citizen participation.

Teacher: McKenna Gafford

Business 2

BUSA 12025.pdf

Open to: Juniors
Prerequisites: Successful completion of Business 1
Credits: 1 credit per semester
Length: 1 semester
Description: This course covers business concepts such as: marketing, entrepreneurial skills, employee development, evaluation, recruitment, selection, financial concepts, and ethical decision making. In addition, this course will focus on Computer Skills and Application Strategies. The software used for the course will be Windows 10 Operating System, Google Chrome, Microsoft Office 365/2019 Word, Excel, PowerPoint, and Access.

Teacher: Leah Heesch

Computer Science 1B

CS 121 Syllabus.pdf

Programming and Software Development Standards.pdf

Open to: Juniors
Prerequisites: Computer Science 1A and Audition Passed with PA
Required: No
Credits: 2
Length: 1 semester

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Description: Introduction to object oriented problem solving and programming. Software development process. Data and expressions, conditionals and loops, arrays and lists, and classes and interfaces. Introduction to graphical user interfaces and UML diagrams.This portion of the class will be completed by the end of Semester 1 and is a concurrent enrollment class with Boise State CS121.

Teacher: Stephen Mathie

Computer Science 2

Computer Science 2.pdf Programming_Software_Development_Program_Standards-1.pdf

Open to: Juniors
Prerequisites: Computer Science 1A/B and Audition Passed with PA
Required: No
Credits: 2
Length: 1 Semester

Description: This course the basics of developing, testing, and debugging a PHP application that gets data from a MySQL database. It covers using PHP to work with form data, dates, arrays, sessions, and functions. Finally, it covers designing and creating a database and working with its data using SQL.

Teacher: Stephen Mathie

Computer Science 2.1

Computer Science 2.pdf Programming_Software_Development_Program_Standards-1.pdf

Open to: Juniors
Prerequisites: Computer Science 1 and Audition Passed with PA
Required: No
Credits: 2
Length: 1 Semester

Description: This course the basics of developing, testing, and debugging a PHP application that gets data from a MySQL database. It covers using PHP to work with form data, dates, arrays, sessions, and functions. Finally, it covers designing and creating a database and working with its data using SQL.

Teacher: Stephen Mathie

Electronics 2

Electronics 2 Syllabus.pdf Electronics Technology Standards.pdf

Open to: Juniors
Prerequisites: Electronics 1A AND ISS 1, 2 or Web 1, CS 1 and Audition Passed with PA
Required: No
Credits: 1
Length: 1 Semester Daily Block

Description: This course is intended to teach beginning electronics technician skills. Basic tool and hardware usage, electronic schematics and components, basic wiring, soldering and microcontrollers will be covered.

Teacher: Nathan Bushard
Teacher: Josh Kitzerow

Electronics 2C

Electronics 2C Syllabus.pdf

Open to: Juniors
Prerequisites: Web Design 1 or Information Systems Support 1 and Audition Passed with PA
Required: No
Credits: 1
Length: 1 Semester

Description: This course is intended to teach 3D computer aided design using the SolidWorks program. This is an online course students can choose to take for high school credit.

Teacher: Nathan Bushard
Teacher: Josh Kitzerow

Employment Preparation

Course Syllabus 25-26.pdf

Idaho Workplace Skills for Career Readiness Standards.pdf

Course information

Open to: Juniors
Prerequisites: Passing Sophomore Tech Classes at MTCHS
Required: Yes
Credits: 1
Length: 1 Semester Credit

Welcome to Employment Preparation! This course leads to and prepares juniors for an internship in a professional workplace. Students engage in career exploration, professional development, self-promotion, and real world experiences. One 4-6 hour job shadow and one professional development experience, of student's choosing, is required.

Meeting days will be an A/B Format (every other day) for the entire school year. The Semester 1 grade will be a mid-term grade and will be available on the report card. The one course credit will transcript at the end of Semester 2.

This course must be passed with a grade 70% or higher to remain at the school for the senior year.

Teacher: Jenni Bradford
Teacher: Duane Erickson

English 3A

CC 3A Syllabus 2025.pdf

Open to: Juniors
Prerequisites: Successful completion of English 2A & 2B or equivalent course.
Required: Yes
Credits: 2
Length: 1 year
Description: Students will learn skills necessary to communicate effectively both in the written word and spoken communication. In doing this they apply technical writing, editing, and grammar/mechanics guidelines along with critical thinking and analysis skills. Students will develop the skills and knowledge they need to prepare for further education or to step into the world of work. Students will also read a variety of literary works and write academic essays on a range of topics.

Teacher: Karl vonderehe

English 3B

English 3B Syllabus 2026.pdf

Open to: Juniors
Prerequisites: Successful completion of English 2A & 2B or equivalent course.
Required: Yes
Credits: 2
Length: 1 year
Description: Students will learn skills necessary to communicate effectively both in the written word and spoken communication. In doing this they apply technical writing, editing, and grammar/mechanics guidelines along with critical thinking and analysis skills. Students will develop the skills and knowledge they need to prepare for further education or to step into the world of work. Students will also read and write about a variety of literary works on a range of topics, including cross-curricular projects.

Teacher: Karl vonderehe

HS Math 3A

Math 3Syllabus20252026.pdf

Open to: Sophomores, Juniors
Prerequisites: HS CC Math 2 A&B and HS Math 2A&B

Required: Yes

Credits: 1

Length: Semester

Description: Common Core Math 3 students will expand their understanding of area and volume with geometric modeling, which students will apply throughout the course as they learn new types of functions. Students will study polynomial, radical, logarithmic, rational, and trigonometric functions. They will also learn how visual displays and statistics relate to different types of data and probability distributions.

Teacher: Gary Porper

HS Math 3B

Math 3Syllabus20252026.pdf

Open to: Sophomores, Juniors

Prerequisites: HS CC Math 2 A&B and HS Math 2A&B, 3A

Required: Yes

Credits: 1

Length: Semester

Description: Common Core Math 3 students will expand their understanding of area and volume with geometric modeling, which students will apply throughout the course as they learn new types of functions. Students will study polynomial, radical, logarithmic, rational, and trigonometric functions. They will also learn how visual displays and statistics relate to different types of data and probability distributions.

Teacher: Gary Porper

Information Systems Support - 3

Computer Support Standards.pdf

Information-Systems-Support 3 Syllabus.pdf

Open to: Juniors
Prerequisites: Information Systems Support 1, 2 and Audition Passed with PA
Required: No
Credits: 2
Length: 1 Semester

Description: The goal of this course is for students to achieve a CompTIA Client Pro Certification. The Client Pro Certification verifies the ability to perform tasks necessary to support a Windows 10 environment. This Class will also be reviewing various computer support topics to prepare for the State of Idaho Computer Support Technical Skills Assessment.

Teacher: Nathan Bushard
Teacher: Josh Kitzerow

IT Fundamentals A

IT Fundamentals Syllabus 2025-2026.pdf

Open to: Sophomores
Prerequisites: Computing and Internet Core; Audition Passed with PA
Required: Yes
Credits: 3
Length: 3 Quarters

Description: Students will predominantly use CompTIA CertMaster to study computer maintenance and repair, basic computer/hardware installations, and troubleshooting. Students will learn to identify various parts of a computer and Network. This course will introduce students to basic troubleshooting skills, networking skills, and customer service. It will serve as a foundational course.

Teacher: Nathan Bushard
Teacher: Erica Grell
Teacher: Josh Kitzerow

IT Fundamentals B

Teacher: Nathan Bushard
Teacher: Erica Grell

Junior Project

Students will explore real-world challenges related to human health and wellness, researching current issues that impact individuals and communities. Working in collaborative teams, they will design an innovative technology-based solution supported by authentic data and research. Throughout the project, students will apply problem-solving, critical thinking, creativity, and communication skills as they develop their prototype and present their findings. Students will learn and practice SCRUM Agile project management, gaining workplace-ready experience with tools and processes widely used in modern technology fields.

Teacher: Jenni Bradford
Teacher: Nathan Bushard
Teacher: Duane Erickson
Teacher: McKenna Gafford
Teacher: Josh Kitzerow
Teacher: Karl vonderehe

Media Design 2

Media Design 2 Syllabus.pdf

Open to: Juniors
Prerequisites: Media Design 1 and Web Design 1; Audition Passed with PA
Required: No
Credits: 2
Length: 1 Semester

Description: This course is project based and geared towards developing an excellent digital design portfolio for the Junior Tech Fair and getting an internship. This is also a dual credit class with CWI COMM 268 Intro to Video Production.

Teacher: Ben Taylor

Networking2

Network Support Standards.pdf

Networking 2 Syllabus.pdf

Open to: Juniors
Prerequisites: ISS 1, 2, Networking 1A
Required: No
Credits: 2
Length: 1 Semester

Description:

This class focuses on how networks function and troubleshooting connectivity problems.

Students will learn the following concepts

- Networking terminology
- Basic network infrastructure for small, medium, and large business
- Securing wired and wireless networks
- Troubleshooting network connectivity
- Implementation of network security, standards, and protocols
- Design and set up of home and small business networks
- Learn basic configuration for Cisco switches and routers

Teacher: Nathan Bushard
Teacher: Josh Kitzerow

Physics-Conceptual A

Physics State Standards.pdf

Physics Syllabus.pdf

Fall Semester Juniors

This course is a comprehensive, year-long exploration of the fundamental principles of physics, designed to engage students in the study of motion, forces, energy, waves, electricity, magnetism, and real-world applications of physical science. Students will build a deep understanding of physical phenomena through inquiry-based learning, hands-on activities, and a digital interactive notebook that serves as a portfolio/lab notebook of their work and progress.

Throughout the course, students will investigate real-world problems, develop critical thinking and problem-solving skills, and apply mathematical models to explain and predict physical behavior. The course is aligned with Idaho State Physics Standards and prepares students for further study in STEM fields. Emphasis is placed on scientific reasoning, data analysis, lab investigation, and the engineering design process.

Physics-Conceptual B

Physics State Standards.pdf Physics Syllabus.pdf

Spring Semester

This course is a comprehensive, year-long exploration of the fundamental principles of physics, designed to engage students in the study of motion, forces, energy, waves, electricity, magnetism, and real-world applications of physical science. Students will build a deep understanding of physical phenomena through inquiry-based learning, hands-on activities, and a digital interactive notebook that serves as a portfolio/lab notebook of their work and progress.

Throughout the course, students will investigate real-world problems, develop critical thinking and problem-solving skills, and apply mathematical models to explain and predict physical behavior. The course is aligned with Idaho State Physics Standards and prepares students for further study in STEM fields. Emphasis is placed on scientific reasoning, data analysis, lab investigation, and the engineering design process.

Teacher: Jeff Bodell

Pre-Calculus A-Advanced

Math 147 Fall 22 Syllabus.pdf

Open to: Juniors

Prerequisites: Successful completion of CC Math 3 and S/B Math 3A/B Advanced with an A or B

Required: No

Credits: 1

Length: 1 semester

Description: This course covers advanced algebra and trigonometry with an emphasis on concepts that will be useful in calculus. Topics include functions (in general), polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, analytic trigonometry, conics, complex numbers, polar coordinates, parametric equations and systems of equations. Other topics that may be covered are matrices and sequences and series. This course is a dual credit course with CWI Math 147 which is the single-course equivalent to College Algebra (Math 143) plus Trigonometry (Math 144).

Pre-Calculus B-Advanced

Math 147 Fall 22 Syllabus.pdf

Open to: Juniors and Seniors

Prerequisites: Successful completion of CC Math 3 and S/B Math 3A/B Advanced with an A or B and Pre-Calculus A-Advanced

Required: No

Credits: 1

Length: 1 semester

Description: This course covers advanced algebra and trigonometry with an emphasis on concepts that will be useful in calculus. Topics include functions (in general), polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, analytic trigonometry, conics, complex numbers, polar coordinates, parametric equations and systems of equations. Other topics that may be covered are matrices and sequences and series. This course is a dual credit course with CWI Math 147 which is the single-course equivalent to College Algebra (Math 143) plus Trigonometry (Math 144).

Web Design 2

Web Design 2 Syllabus 2025.pdf

Open to: Juniors
Prerequisites: Web Design 1 AND CS 1A, Web 1B OR Media Design 1 and Audition Passed with PA
Required: No
Credits: 2
Length: 1 Semester Daily Block

Description: This course covers Advanced HTML 5, CSS, Web Design & UX/UI design with Adobe XD. This course covers advanced CSS, intro to Javascript in the DOM, JQuery as well as an industry UX/UI certification.

Teacher: Ben Taylor

Web Design 3

Web 3 Course Syllabus.pdf

Web-Design-and-Development-Program-Standards..pdf

Open to: Juniors
Prerequisites: Web Design 2 and Audition Passed with PA
Required: No
Credits: 1
Length: 1 Semester

Description: This course reviews and reinforces the Idaho Web Design and Development Standards.

Teacher: Ben Taylor

12th Grade

Business 3A

Heesch BUSA 101 25-26.pdf

Open to: Seniors
Prerequisites: Business 1 and Business 2
Required: Yes
Credits: 2 per semester (4 for the year)
Length: Semester

Description: A survey of business subject areas for both business and nonbusiness students. Topics covered will include business operation and organization, financial management, marketing, accounting, and labor relations. Career opportunities in the field of business will be discussed. There may be changes in the syllabus without any notice at any point during the year. This class is an optional CWI Dual Credit course offering (BUSA 101); registration will take place in the Spring for dual credit.

Teacher: Leah Heesch

Business 3B

Heesch BUSA 101 22.pdf

Open to: Seniors
Prerequisites: Business 1, Business 2 and Business 3 first semester
Required: Yes
Credits: 2 per semester (4 for the year)
Length: Semester

Description: A survey of business subject areas for both business and nonbusiness students. Topics covered will include business operation and organization, financial management, marketing, accounting, and labor relations. Career opportunities in the field of business will be discussed. There may be changes in the syllabus without any notice at any point during the year. This class is an optional CWI Dual Credit course offering (BUSA 101); registration will take place in the Spring for dual credit.

Teacher: Leah Heesch

Business and Consumer Math A

Heesch FINA 109 25-26.pdf

Open to: Seniors
Prerequisites: None
Required: Yes
Credits: 1 per semester (2 for the year)
Length: 1 year

Description: A mathematical foundations course for students to develop foundational skills used to be successful in business. In addition, students gain a better understanding of personal finances, career research, and the decision-making process to set and achieve personal financial goals. Class activities will include internet research, data analysis, group work, individual reading and assignments, and presentations. Students are provided with critical-thinking opportunities and hands-on experience. This is a dual credit offering through CWI - course FINA 109.

Teacher: Leah Heesch

Business and Consumer Math B

Heesch FINA 109 22.pdf

Open to: Seniors
Prerequisites: Business and Consumer Math
Required: Yes
Credits: 1 per semester (2 for the year)
Length: 1 year

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Description: Semester Class
A mathematical foundations course for students to develop foundational skills used to be successful in business. In addition, students gain a better understanding of personal finances, career research, and the decision-making process to set and achieve personal financial goals. Class activities will include internet research, data analysis, group work, individual reading and assignments, and presentations. Students are provided with critical-thinking opportunities and hands-on experience. This is a dual credit offering through CWI - course FINA 109.

Teacher: Leah Heesch

Calculus 1A-Advanced

NNU Calc 1 Syllabus 2025-2026.docx.pdf

Open to: Juniors and Seniors

Prerequisites: Successful completion of Pre-Calculus

Required: No

Credits: 1

Length: 1 semester

Description: This is the first course in the calculus sequence. It covers algebraic and transcendental functions, rate of change, limits, continuity, differentiation of algebraic, trig, exponential, logarithmic, and hyperbolic functions, differentials, applications of differentiation, definite and indefinite integrals, area between curves, volumes, and other applications of integration, indeterminate forms and L'Hôpital's rule. This course is a dual credit course with CWI Math 170.

Teacher: Gary Porper

Calculus 1B-Advanced

Math 170 Fall 23 Syllabus.pdf

Open to: Juniors and Seniors

Prerequisites: Successful completion of Pre-Calculus

Required: No

Credits: 1

Length: 1 semester

Description: This is the first course in the calculus sequence. It covers algebraic and transcendental functions, rate of change, limits, continuity, differentiation of algebraic, trig, exponential, logarithmic, and hyperbolic functions, differentials, applications of differentiation, definite and indefinite integrals, area between curves, volumes, and other applications of integration, indeterminate forms and L'Hôpital's rule. This course is a dual credit course with CWI Math 170.

Teacher: Gary Porper

Calculus II A-Advanced

NNU Calc 2 Syllabus 2025-2026.docx.pdf

Open to: Seniors

Prerequisites: Successful completion of Calculus I

Required: No

Credits: 1

Length: 1 semester

Description: This is the second course in the calculus sequence. It covers techniques of integration, improper integrals, Simpson's Rule, Trapezoidal Rule, arc length, surface area, and other applications of integration, direction (slope) fields, parametric equations, polar calculus, conic sections, infinite sequences and series, power series, and Taylor's formula. This course is a dual credit course with CWI Math 175.

Calculus II B-Advanced

Math 175 Fall 23 Syllabus.pdf

Open to: Seniors

Prerequisites: Successful completion of Calculus I

Required: No

Credits: 1

Length: 1 semsester

Description: This is the second course in the calculus sequence. It covers techniques of integration, improper integrals, Simpson's Rule, Trapezoidal Rule, arc length, surface area, and other applications of integration, direction (slope) fields, parametric equations, polar calculus, conic sections, infinite sequences and series, power series, and Taylor's formula. This course is a dual credit course with CWI Math 175.

College Algebra A

College Algebra Syllabus Grainger 2024.pdf

Open to: Seniors

Prerequisites: Successful completion of CC Math 3

Required: No

Credits: 1

Length: 1 semester

Description: This course covers advanced algebra. Topics include equations and inequalities; polynomial rational, exponential and logarithmic functions, and systems of equations. This class will be taught as a dual credit course through CWI for Spring, 2024. Dual credit is optional and up to the discretion of each student.

Teacher: Gary Porper

College Algebra B

College Algebra Syllabus Grainger 2024.pdf

Open to: Seniors

Prerequisites: Successful completion of CC Math 3

Required: No

Credits: 1

Length: 1 semester

Description: This course covers advanced algebra. Topics include equations and inequalities; polynomial rational, exponential and logarithmic functions, and systems of equations. This class will be taught as a dual credit course through CWI for Spring, 2024. Dual credit is optional and up to the discretion of each student.

Teacher: Daren Garey
Teacher: Gary Porper

Computer Science 3A

CS 221 Syllabus.pdf

Programming and Software Development Standards.pdf

Open to:	Seniors
Prerequisites:	Computer Science 1B
Required:	No
Credits:	2
Length:	1 semester
Description:	Object-oriented design including inheritance, polymorphism, and dynamic binding. Graphical user interfaces. Recursion. Introduction to program correctness and testing/analysis of time/space requirements. Basic data structures: lists, collections, stacks, and queues. Basic searching and sorting. This course is dual credited with BSU 221.

Teacher: Stephen Mathie

Computer Science 3B

Computer Science 3B.pdf

Programming_Software_Development_Program_Standards-1.pdf

Open to: Seniors
Prerequisites: Computer Science 3A
Required: No
Credits: 2
Length: 1 Semester
Description: Projects in programming will involve students developing a software product through all phases of the development cycle. Project management, legal and ethical issues as well as current trends in programming will be emphasized.

Teacher: Stephen Mathie

Consumer Economics

ECON 2420 (1).pdf

Open to: Seniors
Prerequisites: None
Required: Yes
Credits: 1 credit for year long class
Length: 1 year
Description: Upon the successful completion of this course students will be able to:

- Understand the economic way of thinking.
- Identify different economic systems are used throughout the world; understand factors of production.
- Know and interpret supply, demand, scarcity, and opportunity; explain implications on decisions.
- Explain how markets are competitive and discuss the pros and cons of regulation.
- Distinguish between different types of business organizations and ramifications of different types.
- Understand the difference between monetary policy and fiscal policy and the role of the Federal Reserve.
- Know the role of labor unions and how they affect the economy.
- Overview of personal finances and the time value of money.

Teacher: Leah Heesch

Electronics 3A

Electronics 3A-B Syllabus.pdf

Electronics Technology Standards.pdf

Open to: Seniors,
Prerequisites: Electronics 1 & 2
Required: No
Credits: 4
Length: 1 Semester
Description: This course covers, DC, AC and Analog electronics theory and application. Certification is available in these areas. Test equipment such as oscilloscopes, function generators, digital multimeters, and power supplies will be used. Electronics is a math intensive course and strong algebra skills are essential to complete necessary calculations correctly. Additionally, students will be challenged with faults entered into NIDA trainers to enhance troubleshooting skills.

Teacher: Nathan Bushard

Electronics 3B

Electronics 3A-B Syllabus.pdf

Electronics Technology Standards.pdf

Open to: Seniors,
Prerequisites: Electronics 1, 2 & 3A
Required: No
Credits: 4
Length: 1 Semester

Description: This course covers, DC, AC and Analog electronics theory and application. Certification is available in these areas. Test equipment such as oscilloscopes, function generators, digital multimeters, and power supplies will be used. Electronics is a math intensive course and strong algebra skills are essential to complete necessary calculations correctly. Additionally, students will be challenged with faults entered into NIDA trainers to enhance troubleshooting skills.

Teacher: Nathan Bushard
Teacher: Josh Kitzerow

English 4A

CC 4A Syllabus 2025.pdf

Open to: Seniors
Prerequisites: Successful completion of English 3A & 3B or equivalent course.
Required: Yes
Credits: 2
Length: 1 year
Description: CC English 4A emphasizes the process and strategies of writing with critical attention to purpose, audience, and style. Students write analytical essays based on readings, observations, and ideas; develop their inventiveness and voice; and edit for style conventions of standard usage.

Teacher: Karl vonderehe

English 4B

English 4B Syllabus 2026.pdf

Open to: Seniors
Prerequisites: Successful completion of English 3A & 3B or equivalent course.
Required: Yes
Credits: 2
Length: 1 year
Description: CC English 4B emphasizes the process and strategies of writing with critical attention to purpose, audience, and style. Students write analytical essays based on readings, observations, and ideas; develop their inventiveness and voice; and edit for style conventions of standard usage.

Teacher: Karl vonderehe

Internship-MTCHS

This is a working area for MTCHS Student Interns

Teacher: Beth Richtsmeier
Teacher: James Saccomando
Teacher: Ben Taylor

Media Design 3A

Graphic-Design-Program-Standards1.pdf

Media Design 3a Syllabus 2025.pdf

Open to: Seniors
Prerequisites: Media Design 2 and Web Design 2
Required: No
Credits: 2
Length: 1 Semester
Description: Media Design 3A is a Senior level design course where students work on advanced media projects from video production, graphic design, Web, and Interactive Media.

Teacher: Ben Taylor

Media Design 3B

Media Design 3b Syllabus.pdf

Open to: Seniors
Prerequisites: Media Design 3A
Required: No
Credits: 2
Length: 1 Semester
Description: This is the final semester of Senior Design. Students will complete their Idaho Graphic Design TSA. Students will be put into groups and work on advanced design projects including video production, game design, and interactive media design.

Teacher: Ben Taylor

Networking - 3A

Network Support Standards.pdf

Networking 3A Syllabus.pdf

Open to: Seniors
Prerequisites: Networking 2
Required: No
Credits: 2
Length: 1 Semester
Description: Security Pro is being taught. Concepts and Objectives are:

- Access Control and Identity Management
- Policies, Procedures, and Awareness
- Physical Security of Data Center and Network devices
- Perimeter Defenses
- Host Defenses
- Application Defenses
- Data Defenses
- Audits and Assessments
- Securing a network and devices on the network from outside data attacks

Teacher: Nathan Bushard
Teacher: Josh Kitzerow

Networking 3B

Network Support Standards.pdf

Networking 3B Syllabus.pdf

Credits: 2
Length: 1 Semester
Prerequisites: Networking 3A
Description: Seniors choose 2 IT industry certifications that they will study for and take. Options include CompTIA A+, CompTIANet+, CompTIA Security+, & Mictosoft MD100/101.

Teacher: Nathan Bushard
Teacher: Josh Kitzerow

Senior Internship

Idaho Workplace Skills for Career Readiness Standards.pdf

Senior Internship Syllabus.pdf

Open to: Seniors
Prerequisites: Successful Completion of Junior Classes
Required: Yes
Credits: 5
Length: 1 year

Internships will be 280 hours at an approved business. Students have the opportunity to utilize their technology skills in a real world business setting. This course is considered to be a capstone of each of the career pathways at MTCHS.

Teacher: Jenni Bradford
Teacher: Duane Erickson
Teacher: Josh Kitzerow

Senior Project

Senior Project

Students will be broken up into groups and they will be required to come up with business/entrepreneurship ideas that will utilize technological skills they have learned throughout their time at MTCHS. Teams will come up with a business name, a product/solution/service and create a website/app/mockup to present to real business leaders in

Syllabus 2025.pdf

our community. Students will learn to work together as a team, as well as practice in public speaking, interviewing, research and development, including ethical A.I. usage for achieving better results.
Students attendance is an absolute must. Students who fail to meet the attendance
requirements will be forced to complete a separate project. Final Project Grades will be posted in Semester 2 in the following classes: Senior Seminar, Speech, Economics & Tech Class.

Teacher: Leah Heesch
Teacher: Ben Taylor

Senior Seminar

Course Syllabus 25-26.pdf

Idaho Workplace Skills for Career Readiness Standards.pdf

Open to:	Seniors
Prerequisites:	Successful completion of Employment Preparation
Required:	Yes
Credits:	1
Length:	1 Semester Credit

Welcome to Senior Seminar! This course complements Senior Internship and prepares students to transition to life after high school through career exploration, postsecondary planning, professional development and real world experiences. One networking event of student's choosing is required.

Meeting days will be an A/B Format (every other day) for the entire school year. The Semester 1 grade will be a mid-term grade and will be available on the report card. The one course credit will transcripted at the end of Semester 2.

Teacher: Jenni Bradford
Teacher: Duane Erickson

Mixed Grade

MTCHS Courses for all Students and Faculty

Technology Remediation

Tech Remediaiton Syllabus 2025-2026.pdf

Open to: 10th
Prerequisites: Computing and Internet Core, Web Design 1 and S/b Computing and Internet Core, Web Design 1 or ISS 1
Required: yes
Credits: 1
Length: Semester

Description: This course can prepare you for the Web Design HTML/CSS certification examination. We will utilizes a learning progression model to help you learn and build skills related to the course / certification objectives, and career skills needed across a variety of fields. You'll then apply what you learned and demonstrate the skills you've gained through a series of lab activities, projects, and quizzes.

- Teacher: Erica Grell

Teacher: Erica Grell

Digital Literacy

Modeling & Animation 2

3d Animation 2 Syllabus.pdf

Open to: All MTCHS Students
Prerequisites: Modeling & Animation
Required: No
Credits: 1
Length: Year Long

Description: This is a before/after school class. This year students will be learning about Modeling, Texturing, Rigging, Animation, Lighting, and Rendering in Autodesk Maya or Blender and training for State competition as a team.

Teacher: Ben Taylor

Video 2

Video Production 2.pdf

Students enrolled in Video 2 are given the flexibility to work on various real-world video production assignments. Students will gain confidence and technical skill in areas ranging from filming, editing, photography, motion graphics, and audio production.

Students who excel will be asked to compete at SkillsUSA state competition in video production.

Gmetrix key: 03417-TaylAdob7-48823

Teacher: Ben Taylor

Modeling & Animation

3d Animation Syllabus.pdf

Open to: All MTCHS Students
Prerequisites: None
Required: No
Credits: 1
Length: Year Long

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Description: This is a before/after school class. This year students will be learning about Modeling, Texturing, Rigging, Animation, Lighting, and Rendering in Autodesk Maya.

Teacher: Erica Grell
Teacher: Ben Taylor

Game Design 2

GD 2 Syllabus.pdf

Open to: Sophomores-Seniors
Prerequisites: Game Design 1
Required: No
Credits: 1
Length: 1 Year
Description: Students enrolled in Game Design 2 are placed on a team and their goal is to create a working video game, with the intended purpose of competing in Interactive Applications and Game Design at SkillsUSA state competition.

Teacher: Andrew Pence
Teacher: Ben Taylor

Speech

Open to: Seniors
Prerequisites: None
Required: No
Credits: 1
Length:

Description: This class introduces the student to the communication process, listening skills, viewing skills, and public speaking. Emphasis is placed on student performance activities. It is designed to help students engage in the understanding of human communication and practice of improving one's ability to express ideas orally.

Teacher: Karl vonderehe

Spanish 3B

Open to:
Prerequisites: Spanish 3A
Required: No
Credits: 1
Length: 1 Semester

Description: This course covers

Teacher: Andrew Pence

Spanish 3A

Open to:
Prerequisites: Completion of Spanish 2A,B
Required: No
Credits: 1
Length: 1 Semester

Description: This course covers

Teacher: Andrew Pence
Teacher: Beth Richtsmeier

Video 1

VP Syllabus.pdf

Open to: All MTCHS Students
Prerequisites: None
Required: No

Credits: 1
Length: Year Long

Description: This is a before/after school class. This year students will be learning about and certifying in Adobe Premiere Pro and Adobe After Effects. Students will earn their ACA certification in Premiere Pro and After Effects as well as gain proficiency in understanding how to do their own video production projects.

Teacher: Ben Taylor

Game Design I

GD Syllabus 2019.pdf

Open to: All MTCHS Students
Prerequisites: None
Required: No
Credits: 1
Length: Year

Description: This course covers has two levels, year one and year two. Year one begins with an intro to Unity, 3d modeling using Maya, and intro to programming with C#, the second semester students continue by creating a 2d platformer using Unity and the adobe suite. Year two students use Unreal Engine and Maya to create a full 3d game.

Teacher: Erica Grell
Teacher: Ben Taylor

Citizenship and Professionalism

Course Syllabus 25-26.pdf

Idaho Workplace Skills for Career Readiness.pdf

Open to: Freshmen, Sophomores, Juniors, Seniors,
Prerequisites: Required
Required: Yes
Credits: 1
Length: 1 semester credit

Full Year. Pass/Fail. This class is not included in GPA calculations.

MTCHS students earn a Citizenship and Professional grade each of their four years. Students engage in community service and activity days, practice professional dress, and target MTCHS Framework goals. Grade level meetings and small group meetings occur throughout the year.

Passing each of four categories (Community Service, Activity Days, Professional Dress, and Framework Skills) with at least 70% earns the course competency and a passing grade in the course.

Teacher: Jenni Bradford
Teacher: Andrew Pence

Dragon's Den

Course Information:

Open to: MTCHS students and staff
Prerequisites: None
Required: No
Credits: 0
Length: Self-study
Description: This is a Language Arts self-study course designed for those students who want or need to improve their Language Arts skills. Freshmen students will be working through the course as part of their review requirements, but it is open to all MTCHS students and staff.

Teacher: Leah Heesch

Teacher: Karl vonderehe
Teacher: Katie Wiese

Portfolio Multi-Year

Applications

2030 Graduates

CLASS of 2030

This is a collection of student work including **MTCHS Framework** and Technical Focus Area Applications that students keep from Freshman Year through Senior Year.

Teacher: Sarah Bandlamudi
Teacher: Nathan Bushard
Teacher: Duane Erickson
Teacher: Erica Grell
Teacher: Josh Kitzerow
Teacher: Andrew Pence
Teacher: Ben Taylor
Teacher: Katie Wiese

2029 Speech

Teacher: Sarah Bandlamudi
Teacher: Erica Grell
Teacher: Vanessa Leyva
Teacher: Beth Richtsmeier
Teacher: Karl vonderehe
Teacher: Katie Wiese

2029 Graduates

CLASS of 2029

This is a collection of student work including **MTCHS Framework** and Technical Focus Area Applications that students keep from Freshmen Year through Senior Year.

Teacher: Sarah Bandlamudi
Teacher: Nathan Bushard
Teacher: Duane Erickson
Teacher: Erica Grell
Teacher: Josh Kitzerow
Teacher: Andrew Pence
Teacher: Ben Taylor
Teacher: Katie Wiese

2025 Techpreneur Camp

Teacher: Jenni Bradford
Teacher: Erica Grell
Teacher: Leah Heesch
Teacher: Stephen Mathie

2028 Speech

Teacher: Erica Grell

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Teacher: Vanessa Leyva
Teacher: Beth Richtsmeier
Teacher: Karl vonderehe
Teacher: Katie Wiese

2028 Graduates

CLASS of 2028

This is a collection of student work including **MTCHS Framework** and Technical Focus Area Applications that students keep from Freshmen Year through Senior Year.

Teacher: Jeff Bodell
Teacher: Nathan Bushard
Teacher: Duane Erickson
Teacher: Erica Grell
Teacher: Leah Heesch
Teacher: Josh Kitzerow
Teacher: Andrew Pence
Teacher: Ben Taylor
Teacher: Karl vonderehe
Teacher: Katie Wiese

2027 Speech
Teacher: Erica Grell
Teacher: Beth Richtsmeier
Teacher: Karl vonderehe
Teacher: Katie Wiese

2027 Graduates

CLASS of 2027

This is a collection of student work including MTCHS Framework and Technical Focus Area Applications that students keep from Freshmen Year through Senior Year.

Teacher: Jeff Bodell
Teacher: Nathan Bushard
Teacher: Duane Erickson
Teacher: Erica Grell
Teacher: Leah Heesch
Teacher: Josh Kitzerow
Teacher: Vanessa Leyva
Teacher: Andrew Pence
Teacher: Ben Taylor
Teacher: Karl vonderehe
Teacher: Katie Wiese

2025 Graduates
This is a collection of student work including MTCHS Framework and Technical Focus Area Applications that students keep from Freshmen Year through Senior Year.

Teacher: Jeff Bodell
Teacher: Jenni Bradford
Teacher: Nathan Bushard

Teacher: Cheryl Deitchler
Teacher: Duane Erickson
Teacher: Erica Grell
Teacher: Leah Heesch
Teacher: Andrew Pence
Teacher: Ben Taylor
Teacher: Karl vonderehe

2026 Speech

Teacher: Erica Grell
Teacher: Beth Richtsmeier
Teacher: Karl vonderehe
Teacher: Katie Wiese

Master Graduation Class

This is a collection of student work including MTCHS Framework and Technical Focus Area Applications that students keep from Freshmen Year through Senior Year.

Teacher: Cheryl Deitchler
Teacher: Beth Richtsmeier

2026 Graduates

This is a collection of student work including MTCHS Framework and Technical Focus Area Applications that students keep from Freshmen Year through Senior Year.

Teacher: Jeff Bodell
Teacher: Jenni Bradford
Teacher: Nathan Bushard
Teacher: Duane Erickson
Teacher: Erica Grell
Teacher: Leah Heesch
Teacher: Josh Kitzerow
Teacher: Andrew Pence
Teacher: Ben Taylor
Teacher: Karl vonderehe
Teacher: Katie Wiese