

Medford Area Senior High

"Ordinary is a Given. Greatness is Achieved"



Academic & Career Planning Guide 2026-2027

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NON-DISCRIMINATION STATEMENT

The Medford Area Public School District does not discriminate against pupils on the basis of sex, race, national origin, ancestry, creed, religion, pregnancy, marital or parental status, sexual orientation, or physical, mental, emotional, or learning disability or handicap in its education programs or activities. Federal law prohibits discrimination in employment on the basis of age, race, color, national origin, sex, religion, or handicap.

SCHOOL COUNSELORS

Students	Counselor	Contact Information
Last Name A - K	Ashley Jochimsen-McCarron	jochias@medford.k12.wi.us
Last Name L - Z	Terry Lybert	lyberte@medford.k12.wi.us

PLANNING YOUR HIGH SCHOOL COURSES AND FUTURE

The courses you select throughout high school should be chosen with careful thought and purpose. When making these decisions, consider your abilities, interests, and future goals.

Your options for further education may include apprenticeships, the military, trade schools, technical colleges, or four-year universities. Keep in mind that many colleges and programs have specific admission requirements- including certain subjects you must complete in high school. Colleges often expect students to graduate in the upper half (or higher) of their class and to have a strong academic foundation in English, Social Studies, Science, Mathematics, and sometimes Foreign Language.

If you do not plan to continue your education after high school, you should still select courses that will prepare you for your chosen career path.

Your school counselor is specially trained to assist you with this type of planning and is available to help you at any time. You are encouraged to discuss your academic and career plans with your parents/guardians, teachers, principal, and counselor, as each can provide valuable advice and guidance.

Your counselor can assist you in the following ways:

- **Four Year Academic Plan:** A four-year plan is a tool to help map out your high school years while guiding you to achieving your goals for life after high school. A grid is provided in this handbook for making your four-year plan.
- **Career and Education Material:** The school counselor can provide resources and support on occupations, colleges, vocation schools, trade schools, apprenticeships, and the military.
- **Academic Testing and Interpretation:** During high school you will have the opportunity to participate in various assessments that are designed to assist you in your high school and post-secondary planning. The purpose of these assessments is to gather information to help develop a more realistic picture of your strengths and weaknesses. All test results are given to you and your parents or guardians, along with helpful interpretive information. Generally, all colleges and many careers require some form of assessment. The assessments may include the following:

Grade	Test	Description
9 & 10	PreACT Secure	State assessment is an online summative assessment that measures what students have learned in the areas of: English, Reading, Math, Science, and Writing. Scores predict how a student will perform on both the ACT when they reach 11th grade. Students who need academic interventions or challenges can be identified earlier in their high school careers.
11	ACT with Writing	The ACT is required for all Juniors and will be given in the spring. There will be no cost to Juniors for taking the test on the scheduled testing date at school; however, students who wish to retake the ACT to improve their score must register to take the test on ACT.org at an additional cost. Students planning to retake the test and are requesting a fee waiver must see their school counselor to see if they qualify for the fee waiver. Students planning to attend a four-year university must take either the ACT or the SAT to fulfill admission requirements.
	PSAT (Preliminary Scholastic Assessment Test)	Preliminary Scholastic Assessment Test/National Merit Scholarship Qualifying Test (optional) a preliminary SAT, which helps you to prepare to take the SAT college entrance examination, as well as giving you the opportunity to participate in the National Merit Scholarship competition. A fee is charged for the PSAT.
12	ASVAB (Armed Services Vocational Aptitude Battery)	The Armed Services Vocational Aptitude Battery (optional) -- is required if you plan to enter any branch of the military and is also useful in assisting with career choices. See Military.com for more information and practice tests. See your Counselor to request to take the exam.

PROGRAM PLANNING

The following is a guide for you to create your four-year plan. It is a good idea to project a four-year selection of classes for yourself even though it is likely that you will want to make some changes during the time you are in high school. You and your parents/guardians will be asked each year to review your selection of classes for the next school year. Students are required to take seven (7) credits each year (no more than one study hall) regardless of how many credits they have accumulated. **Any student wishing to take more than 7 credits per year must have honors study hall status or need the credits in order to graduate.**

GRADE 9	1 st Semester		2 nd Semester	
	Schedule Template	My Classes	Schedule Template	My Classes
Required	[Honors] English 9		[Honors] English 9	
Required	Math Course		Math Course	
Required	[Honors] Physical Science		[Honors] Physical Science	
Required	[AP] Human Geography		[AP] Human Geography	
Required	Phy Ed/Elective		Driver Ed/Life Mgt	
Elective	See ACP Guide for Options		Elective	
Elective	See ACP Guide for Options		Elective	
Study Hall/Elective	See ACP Guide for Options		Study Hall/Elective	

GRADE 10	1 st Semester		2 nd Semester	
	Schedule Template	My Classes	Schedule Template	My Classes
Required	[Honors] English 10		[Honors] English 10	
Required	Math Course		Math Course	
Required	[Honors] Biology		[Honors] Biology	
Required	[AP] US Government		[AP] US Government	
Required	Health		Phy Ed/Elective	
Elective	See ACP Guide for Options		Elective	
Elective	See ACP Guide for Options		Elective	
Study /Elective	See ACP Guide for Options		Study Hall/Elective	

GRADE 11	1 st Semester		2 nd Semester	
	Schedule Template	My Classes	Schedule Template	My Classes
Required	[AP] [Honors] Language 11		[AP] [Honors] Language 11	
Required	Math Course		Math Course	
Required	[Honors] Chemistry		[Honors] Chemistry	
Required	[AP] US History		[AP] US History	
Phy Ed/Elective	See ACP Guide for Options		Elective	
Elective	See ACP Guide for Options		Elective	
Elective	See ACP Guide for Options		Elective	
Study Hall/Elective	See ACP Guide for Options		Study Hall/Elective	

GRADE 12	1 st Semester		2 nd Semester	
	Schedule Template	My Classes	Schedule Template	My Classes
Required	[AP] [Honors] Literature 12		[AP] [Honors] Literature 12	
Required	[Honors] Financial Literacy		Phy Ed/Elective	
Elective	See ACP Guide for Options		Elective	
Elective	See ACP Guide for Options		Elective	
Elective	See ACP Guide for Options		Elective	
Elective	See ACP Guide for Options		Elective	
Elective	See ACP Guide for Options		Elective	
Study Hall/Elective	See ACP Guide for Options		Study Hall/Elective	

GRADUATION REQUIREMENTS

In order to graduate from Medford Area Senior High students must accumulate 23 ¾ credits, and have passed the civics exam, and earned the required number of community service hours as outlined below. **It is the responsibility of each student to see that they have completed all the below requirements by graduation.**

Class of 2027, 2028, 2029 and 2030

1. Four (4) credits in English, including English 9 or Honors English 9, English 10 or Honors English 10, English Language, Honors English Language or AP English Language, and English Literature, Honors English Literature or AP English Literature.
2. Three (3) credits in Social Studies, including Human Geography or AP Human Geography, US Government or AP US Government, and US History or AP US History.
3. Three (3) credits of Science, including one credit each of Physical Science, Biology, and Chemistry.
4. Three (3) credits of Mathematics.
5. One and one-half (1.5) credits of Physical Education.
6. One-half (.5) credit for Health.
7. One-half (.5) credit of Financial Literacy.
8. One-quarter (.25) credit of Life Management.
9. One-half (.5) credit of Vocational Education.

Classes meeting the Vocational Education requirements are:

- All Agriculture Department classes.
- All Business Department classes, except Financial Literacy.
- All Family and Consumer Sciences classes.
- All Technology Education classes.
- All Pre-Engineering classes.

10. One-half (.5) credit of Fine Arts.

Classes meeting the Fine Arts Requirements are:

- All Art Department Classes.
- All Music Department Classes.
- Drama from the English Department.

11. Seven (7) Elective Credits.

This could include all department electives as well as World Languages, ELL, and Special Education.

12. Civics Exam.

13. Community Service Hours

- All classes will serve 20 hours
- Any student moving into the district will have their hours prorated accordingly.

COMMON GRADING SCALE

Letter grades will be earned using the following common grading scale.

A	93 – 100%	B-	80 – 82.99%	D+	67 – 69.99%
A-	90 – 92.99%	C+	77 – 79.99%	D	63 – 66.99%
B+	87 – 89.99%	C	73 – 76.99%	D-	60 – 62.99%
B	83 – 86.99%	C-	70 – 72.99%	F	0 – 59.99%

STUDENT EVALUATION

Medford Area Senior High School uses letters for grades. The point values (except for weighted) are as follows:

A	=	4.00 points	C-	=	1.67 points
A-	=	3.67 points	D+	=	1.33 points
B+	=	3.33 points	D	=	1.00 point
B	=	3.00 points	D-	=	.67 points
B-	=	2.67 points	F	=	0 points – indicates failure
C+	=	2.33 points	I	=	0 points – indicates incomplete work
C	=	2.00 points	E	=	.33 points – indicates passing on effort

An “I” is changed to a failure if the work is not completed within two weeks, or for exceptional cases, within an amount of time agreed upon by the teacher.

All AP classes as well as Honors Physics have been designated as weighted. Students will receive one additional grade point for these courses (A=5.0, A-=4.67, B+=4.33, B=4.0, B-=3.67, C+=3.33, C=3.0, C-=2.67, D+=2.33, D=2.0, D-=1.67, F=0, E=.33). If a student’s need dictates the offering of a fifth-year course in either French or Spanish, that class will be weighted.

Courses will not be weighted if taken by correspondence, independent study, online or as summer enrichment unless prior approval is granted by the department involved and the principal.

HONOR ROLL

In determining the honor roll, the grades of all subjects are included. The grade point average, as shown on the report card, is used in listing the honor rolls as follows:

Academic Distinction: 3.800 GPA and higher based on current semester grades

High Honors: 3.500-3.799 GPA based on current semester grades

Honors: 3.000-3.499 GPA based on current semester grades

Students who earn placement on “Academic Distinction or High Honors” for two semesters, accumulated anytime during their Medford Area High School career, will receive an academic letter award. A letter “M” will be awarded for the first two semesters of achievement; subsequent two semester blocks of achievement will be recognized by stars to be pinned on the letter.

ACADEMIC AWARDS

Cum laude is a Latin term that means with honor. It is used to refer to students who have met high academic standards and take challenging and rigorous course work. There are three honors that are bestowed on graduates: Cum Laude which means with honor, Magna Cum Laude which means with great honor, and Summa Cum Laude which means with greatest honor.

In order to receive the Cum Laude award, a student must achieve the following:

1. Cum Laude: 3.500-3.799 grade point average
Magna Cum Laude: 3.800-3.999 grade point average
Summa Cum Laude: 4.000 and higher-grade point average
2. Take 10 semesters of honors or AP courses

Graduating seniors who have earned a Cum Laude award will be given a corresponding medal to wear at graduation.

Per the Wisconsin Department of Public Instruction, weighted grades, as provided for in the district policy, will be used to determine grade point average for the Wisconsin Academic Excellence High Education Scholarship. Annually, at the end of first semester and before February 15, the Board of Education shall select two seniors with the highest-grade point averages in all subject areas completed during grades 9-12. All courses completed will be included in the grade point average.

The Cum Laude award is officially given at graduation ceremonies where students who have earned it are given a corresponding medal to wear during graduation. At each spring academic assembly students who are “on track” to earn the award are recognized. The following is a reference to determine students who are on track to be recognized at the assembly:

Number of semesters a student must have completed to be on track for a Cum Laude award:

Freshman Year:	2 semesters of honors or AP courses
Sophomore Year:	4 semesters of honors or AP courses
Junior Year:	7 semesters of honors or AP courses
Senior Year:	10 semesters of honors or AP courses

AP AND HONORS CLASSES

Freshman Year

Honors English
Honors Physical Science
AP Human Geography

Sophomore Year

Honors English
Honors Biology
AP US Government & Politics

Junior Year

Honors English Language
AP English Language
Honors Chemistry
AP US History

Senior Year

Honors English Literature
AP English Literature
Honors Financial Literacy

Electives

AP Art & Design
AP Calculus AB
AP Calculus BC
AP Biology
AP Chemistry
Honors Physics
AP Psychology

ADVANCED COURSE OPPORTUNITIES

These courses are a component of the district's Gifted and Talented Program.

Medford's A.P. classes are part of a national program sponsored by the College Board. While local teachers design the courses offered at Medford, students may opt to complete a nationally offered test in May, except for AP Art & Design where students would submit a portfolio. Successful completion of this examination may earn a student three to six college credits, depending upon the individual college.

Since the A.P. classes are taught with college-level content in high school, students should know that these courses require more intensive study and increased amounts of homework than a typical high school class. A.P. students and their parents need to consider the time obligations of these classes balanced against other high school classes, jobs, and co-curricular activities. Only students interested in challenging themselves should enroll in an A.P. class.

MATH	SCIENCE	SOCIAL STUDIES	ENGLISH	OTHER
AP Calculus AB AP Calculus BC	AP Biology AP Chemistry	AP Human Geography AP US Government & Politics AP History AP Psychology	AP English Language AP English Literature	AP Art & Design

Transcripted Credit (Dual Credit) courses are taught by high school instructors and are of college level integrity and rigor. In addition to high school credit, juniors and seniors have the option of receiving technical college credit upon completion of the course. Exceptions may be made for sophomores on an individual basis. An official transcript with the grade(s) and credit(s) will be on record at the technical college.

The following courses may offer transcripted credit:

MASH Course	College	College Course	Course Number	College Credit
Advanced Animal Science	NTC	Intro to Animal Science	10-091-104	3.0
Veterinary Science	NTC	Medical Terminology – Vet 1	10-091-172	3.0
Horticulture 2	NTC	Container Gardening	31-001-101	1.0
Accounting IV	NTC	Accounting 1	10-101-111	4.0
QuickBooks	NTC	QuickBooks 1	10-101-180	1.0
		QuickBooks 2	10-101-181	2.0
Entrepreneurship II	NTC	Entrepreneurial Innovation & Opportunity Recognition	10-145-126	3.0
IT Essentials	NTC	Computer Fundamentals I	10-154-100	3.0

MASH Course	College	College Course	Course Number	College Credit
Honors Financial Literacy	NTC	Cents & Sensibility	10-809-101	1.0
Oral Interpersonal Comm.	NTC	Oral Interpersonal Comm.	10-801-196	3.0
Written Communication	NTC	Written Communication	10-801-195	3.0
Culinary Arts	NTC	Sanitation for Food Service Operations	10-316-100	2.0
Found of Early Childhood Ed.	NTC	ECE: Foundations of ECE	10-307-148	3.0
Infant & Toddler Development	NTC	ECE: Infant & Toddler Dev.	10-307-151	3.0
Algebra II	NTC	Intermediate Algebra w/Appl	10-804-118	4.0
AP Calculus AB	NTC	Calculus 1	10-804-198	4.0
College Algebra with Appl	NTC	College Algebra with Appl	10-804-195	3.0
Math for the Trades	NTC	Applied Mathematics	31-804-305	2.0
Medical Terminology	NTC	Medical Terminology	10-501-101	3.0
Metal Manufacturing II	NTC	Intro to Welding	10-422-101	2.0
Basic Grade Construction	FVTC	Basic Grade Construction	50-447-518	1.0
Intro Basic Equipment	FVTC	Intro Basic Equipment	50-447-543	1.0
Basic Maintenance	FVTC	Basic Maintenance	50-447-519	1.0
Electromechanical 1	NTC	Industry Workplace Safety	10-620-172	1.0
Electromechanical 1	NTC	Industrial Electronics Tech 1	10-660-123	1.0
Electromechanical 1	NTC	Industrial Electronics Tech 2	10-660-124	1.0
Electromechanical 2	NTC	AutoCAD for Technicians	10-620-171	1.0
Electromechanical 2	NTC	Intro to Microcontrollers	10-660-121	1.0
Electromechanical 3	NTC	Industrial Electronics Tech 3	10-660-125	1.0
Electromechanical 3	NTC	Fluid Power Systems 1: Fundamentals	10-612-120	1.0
Electromechanical 4	NTC	Fluid Power Systems 2: Fundamentals of Pneumatics	10-612-121	1.0
Electromechanical 4	NTC	Solidworks 1	10-606-165	1.0

CLASS RANK

Wisconsin State Legislature Act 95 requires school boards, charter school operators, and governing bodies of private schools and tribal schools that operate high schools with at least 15 pupils in each class to prepare a class ranking of pupils at the end of 11th grade. Under Act 95, the class ranking must be made solely on the basis of a pupil's grade point average. Each class ranking must identify those pupils who rank in the top five percent of their high school class and those pupils who rank in the top 10 percent of their high school class. The school must then notify each pupil ranked in the top 10 percent of the pupil's high school class that the pupil is ranked, as applicable, in the top five percent or in the top 10 percent of the pupil's high school class and include the appropriate ranking on the pupil's high school transcript as of the pupil's completion of grade 11.

The Wisconsin Guarantee offers guaranteed admission to all Universities of Wisconsin except UW-Madison to first-year applicants from Wisconsin high schools who are in the top 10% of their class at the end of 11th grade, or Wisconsin residents who are homeschooled and receive an ACT score in the national 90th percentile ranking or higher or are a National Merit Scholarship finalist. First-year applicants from Wisconsin high schools who are in the top 5% of their class at the end of 11th grade, or Wisconsin residents who are homeschooled and receive an ACT score in the national 98th percentile ranking or higher or are a National Merit Scholarship finalist will be guaranteed admission to the UW-Madison through The Wisconsin Guarantee. A Universities of Wisconsin Application is required.

INFORMATION FOR ATHLETES - NCAA

If you are thinking about playing sports in college, your high school planning is extremely important. The NCAA has minimum requirements that you must meet in order to be eligible to play college sports at any Division I or II college. The individual school sets eligibility at Division III schools. You must meet both academic eligibility requirements, based on a combination of your grade point average and your ACT or SAT I score, as well as completing NCAA approved Core Courses in subjects such as English, Math, Social Sciences, and Physical or Biological Sciences, and approved elective credits.

The NCAA publishes a booklet called "Guide for the College-Bound Student Athlete." Student Athletes are encouraged to access the NCAA website at www.ncaa.org to download a copy of the guide, or for more information, including a list of NCAA approved courses offered at Medford Area Senior High School. To be eligible to play sports at Division I or II school in college, you must register with the NCAA during your junior year in high school. It is the student's responsibility to determine course selection of NCAA approved courses. Not all courses offered at MASH are considered NCAA approved courses.

PREPARING FOR A 4 YEAR COLLEGE/UNIVERSITY

Which courses should I take in high school?

Students graduating from high school will be required to take a minimum of 17 high school credits, distributed as follows:

English	4 credits
Mathematics	3 credits
Social Science	3 credits
Natural Science	<u>3 credits</u>
	13 credits
Academic Electives	<u>4 credits</u>
Total core college preparatory credits	17 credits

Elective credits must be chosen from the above core college preparatory areas, foreign language, fine arts, computer science, and other academic areas. Some UW System institutions may also accept vocational courses for some of the four (4) elective credits.

Some careers require more courses in special areas. For example: if you would like to major in engineering, you should take four years of mathematics, as well as chemistry, physics and computer science. Other majors such as business, allied health, agriculture and many more, also require additional high school preparation. Your counselor can help you decide which courses beyond the required college prep courses are right for you.

Do I need to take Foreign Language in high school for college?

UW-Madison and some private colleges require a minimum of two credits of a single foreign language. Students planning to attend a four-year college should be aware of foreign language requirements. Some colleges may offer retro credits for students who score accordingly on placement tests. For more information see your school counselor or consult the University of Wisconsin Help website at www.go.wisconsin.edu.

What do I have to do to be admitted?

You need to graduate from high school, complete the course requirements outlined in this brochure, earn good grades, and take the American College Test (ACT). Depending on your chosen college, the SAT may be required.

PREPARING FOR VOCATIONAL –TECHNICAL COLLEGE

The Wisconsin Technical College System provides a broad range of programs and career opportunities. To prepare for these programs students should generally follow a 4-year college preparatory program in high school. However, students should take high school technical classes related to their areas of career interest. Technical schools are expecting all entering students to have a solid technical skills background and a solid academic (math, English, science, social studies) foundation. Students should talk with their individual counselor and to the specific vocational/technical teachers about the programs in which they are interested. The entrance requirements and recommended high school courses vary so much from school to school and program to program that we have not listed them here. Some of the technical college programs fill up very fast. Students who are interested in these programs and who meet the admission requirements are encouraged to apply at the end of their junior year of high school. However, some schools do not accept applications until the fall of your senior year. For additional information, please contact the Student Services office.

PREPARING FOR THE ARMED FORCES

If you are thinking about Armed Services as a lifetime career or simply enlisting for one term, you may consider taking the ASVAB (Armed Services Aptitude Battery). The ASVAB is an exam used by the military to help place students into different career areas. This test is available to Juniors and Seniors. Military recruiters schedule regular visits at the high school. If you would like more information regarding any branch of the military, stop in Student Services.

COURSE SELECTIONS

Course offerings/titles listed in this Academic and Career Planning Guide reflect the most accurate information available at the time of printing. Changes in course availability may occur due to budgeting considerations, teacher utilization, student scheduling choices, or other factors.

On the following pages...

GRADE indicates the grade levels at which a course may be taken.

YEAR OR SEMESTER indicates the length of the course.

PREREQUISITE indicates the course(s) that must be successfully completed before entering the described course. Unless otherwise indicated, students will be awarded one-half (.5) credit for a semester course and one (1) credit for a year-long course.

AGRICULTURE

Agricultural Leadership -- Students in this class will develop leadership skills with a focus on opportunities in the food, fiber, natural resources industries and FFA. Topics to be covered will be leadership, personality styles, communication, motivation, leading individuals and groups, personal development, and work skills. Students will be PALS (Partners in Active Learning Support) with local elementary students engaging in agricultural activities. Taking this course will benefit YOU and your future!

Gr. 9-12 Semester Prerequisite: none

Horse and Small Animal Science – deals with equine management and services along with pet (dogs, cats, rabbits, etc.) care and management. Nutrition, grooming, pedigrees, and other factors are studied. Some information will be included on veterinary careers.

Gr. 9-12 Semester Prerequisite: none

Animal Psychology & Training -- Do you have a natural talent of working with animals or do you want to improve your understanding and interactions with animals? If so, this course is for you! Students will study animal psychology with the school animals while observing, studying, and interacting with multiple species. Topics covered can be animal communication (verbal and non-verbal), mating behavior, parental behavior, social behavior, and training (obedience or behavior modification).

Gr. 9-12 Semester Prerequisite: Horse & Small Animal Science

Fish and Wildlife 1 – In this course we will study game and non-game species of mammals, waterfowl, and fish. The course will study the ecology, habits, habitat, and life cycles of various species of wildlife and fish.

Gr. 9-12 Semester Prerequisite: none

Horticulture-Plants & You – Do you have a green thumb? If not, that's okay! In this course you will build a strong foundation for soil and plant science concepts by working inside the greenhouse and outdoor on landscaping projects and gardens. Students will learn general care for houseplants, fertilization, build corsages, floral arrangements, as well as learn about soil, terrariums, propagation methods, wreath-making, and helping out school and community gardens/landscape.

Gr. 9-12 Semester Prerequisite: none

Horticulture 2 -- Do you have a passion for gardening? With advancing technology gardens can be created in non-traditional areas. Choosing the right plants, selecting the containers and tools, and caring for the plants throughout the growing season will be taught throughout this course. Small space container gardens can provide a bounty of food in a very small space. Are you up for the challenge? This course may offer transcripted/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 10-12 Semester Prerequisites: Horticulture

Food Science -- Students in this class will complete hands-on activities, projects, and problems that stimulate actual concepts and stimulations in the food science and safety industry, allowing students to build content knowledge and technical skills. Students investigate areas of food science, including safety, food chemistry, food processing, food product development, and marketing.

Gr. 10-12 Semester Prerequisite: None

Production Animal Science – is the study of livestock (cattle, swine, sheep, poultry, etc.) industry, animal nutrition and feeding, judging and classification, and the meat industry. Students will also be participating in hands-on animal labs.

Gr. 10-12

Semester

Prerequisite: none

Fish and Wildlife 2 – In this course we will continue to learn about concepts talked about in Fish and Wildlife 1. Topics covered will include hands-on labs and real-life applications such as taxidermy, fish bait making, trapping, tanning, processing, and natural resource experiments.

Gr. 11-12

Semester

Prerequisite: Fish and Wildlife 1

Advanced Animal Science – includes all phases of the animal industry, including feeding, breeding, housing, health, records, and careers. This course may offer transcribed/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 11-12

Semester

Prerequisite: Horse and Small Animal Science and/or
Production Animal Science

Veterinary Science – Explore parts of the veterinary field by learning basic veterinary terminology and identifying veterinary equipment. Learn how to handle and restrain various animals and give a basic physical examination of those animals. Learn about animal diseases and parasites including their diagnosis and treatment. Students will practice basic hands-on procedures with classroom animals. This course may offer transcribed/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 11-12

Semester

Prerequisite: Horse and Small Animal Science

Forestry – In this course students will learn about tree growth, tree identification, harvesting methods, marketing tactics, pests, forest crop laws, careers, and conservation practices. Do you like to be outdoors in forests? Then this is the class for you!

Gr. 11-12

Semester

Prerequisite: none

Farm Management – Students will help run and maintain the school barn. Daily tasks include handling, grooming, feeding, and cleaning animal pens. Limited to 2 students.

Gr. 12

Semester

Prerequisite: Application Required

Independent Agriculture – Students who are interested in learning about a facet of agriculture that has been previously covered in a class or maybe has not been covered in a class-this course is for you! Students will work independently to set up rigorous, high-paced curriculum that focuses specifically on each student's interests.

Gr. 12

Semester

Prerequisite: Instructor Consent

ART

*Upperclassman may select a maximum of 4 art classes per year with the exception of Yearbook.
Placement in these classes may be limited due to class enrollment.*

Art Exploration – is a class where students get to “dip” their feet into a variety of mediums. Beginning Art students will learn the history, vocabulary and techniques related to art and design in both two-dimensional and three-dimensional projects. Units include: drawing, painting, sculpture, metals and ceramics. Lab fee - \$8.00

Gr. 9-12 Semester Prerequisite: none

Drawing I – is an introduction to the fundamental concepts and techniques of drawing using a variety of media and subject matter. Drawing focuses on black and white or monochromatic rendering from life, pictures, masterworks and imagination. With an emphasis on studio production, this course is designed to develop knowledge and skill in drawing, art criticism, art history, and aesthetics. Lab fee - \$8.00

Gr. 9-12 Semester Prerequisite: none

Film and Video I – In this class, students learn how to appreciate and view fine films from a variety of historical eras, studying the history of cinema through class discussion and writing movie reviews. Hands-on learning includes how to use a camera, shoot footage, write scripts, do production design, and learn how to edit film in post-production with the iMovie program. Lab fee - \$8.00

Gr. 9-12 Semester Prerequisite: none

Photography I – This course centers around using Canon DSLR cameras and multiple lenses to learn classic photography techniques as well as how to create a great photo. Projects include shutter speed, taking studio portraits with professional lights, photojournalism, and food photography all while critiquing their work in a group setting. Field trips and taking the camera home are optional. Lab fee: \$8.00 or purchase an SD card.

Gr. 9-12 Semester Prerequisite: none

Film and Video II – Advanced film students follow Film & Video I curriculum but choose their own films to watch and critique as well as work independently on their own filmmaking and designing. This course focuses more heavily on the filming and cinematography of making movies as well as editing and the final processing of student-created films. Lab fee - \$8.00

Gr. 10-12 Semester Prerequisite: Film & Video

Photography II – Advanced photo students work more independently with a variety of projects that push creativity and productivity. Photo reactive chemical processing, studying famous photographers and their work, human senses series, montage, photojournalism, and working in black and white are among a few of the projects included in this course. Lab fee: \$8.00 or purchase an SD card.

Gr. 10-12 Semester Prerequisite: Photography I

Drawing II – is a study of visual art and intermediate drawing skills. Students will explore different avenues of visual communication, self-expression, and creative problem solving through the creation of representative observational drawing as well as abstraction. Students will continue to develop technical drawing skills with an emphasis on composition and content. Students will continue to refine drawing skills and try new materials and techniques. Lab fee: \$8.00

Gr. 10-12 Semester Prerequisite: Drawing I

Metals & Glass I – Intermediate art students will be introduced to the tools, techniques, and methods used to create works of art in both metal and glass. Students will study historical and cultural uses of jewelry and glass. Units include: stained glass, glass etching, mosaic, and metal fabrication. Lab fee - \$8.00

Gr. 10-12 Semester Prerequisite: Art Exploration

Pottery & Sculpture I – Advanced art students will create three-dimensional art forms through the study of art and design; various cultures and artifacts related to ceramics and sculpture. Units include: hand built pottery, wheel thrown pottery, glazing techniques, additive and subtractive sculpture, metal tooling, and found object sculptures. Lab fee - \$8.00

Gr. 10-12 Semester Prerequisite: Art Exploration

Yearbook – Develop skills in journalism and publishing. Students are responsible for producing the Raider, our full color school yearbook. They gain hands-on experience in planning and designing publications, digital photography, image editing, writing and editing copy, and on-line layout of our book. Students who take yearbook more than once assume leadership roles on the staff. (10th grade with Instructor Consent)

Gr. 11-12 All Year Prerequisite: Photography I

Metals and Glass II – is a continuation of what the students learned in Metals and Glass I using more advanced tools, techniques, and methods used to create works of art in both metal and glass. Students will study historical and cultural uses of jewelry and glass. Units of study will include: stained glass, glass etching, mosaic, and metal fabrication. Lab fee - \$8.00

Gr. 11-12 Semester Prerequisite: Metals & Glass I

Painting I – An introduction to basic painting techniques and color principles applied to the exploration of watercolor, acrylic and oil painting. We will study master artists and various painting styles. Lab fee: \$8.00

Gr. 11-12 Semester Prerequisite: Art Exploration or Drawing

Painting II – This course continues building aesthetic and technical skill in watercolor, acrylic, and oil painting. Painters will use advanced design techniques to develop their own personal style in painting. Students will create a series of paintings that will refine and develop mark-making and color skills. Lab fee: \$8.00

Gr. 11-12 Semester Prerequisite: Painting I

Pottery & Sculpture II – is a continued exploration of hand building, wheel throwing techniques and advanced sculptural processes. Students will apply advanced techniques and skills to produce high quality three-dimensional forms to communicate ideas. Units include: hand built and wheel thrown pottery, and sculptural forms created by wire, metal and found objects. Lab fee - \$8.00

Gr. 11-12 Semester Prerequisite: Pottery & Sculpture I

Advanced Placement Art & Design – is designed for highly motivated students who are seriously interested in the study of art. This course is formatted following the Advanced Placement guidelines allowing students to have the option of submitting their portfolio for AP college credit at the end of school year in either **2-D, 3-D or Drawing**. Students who take this year long course will develop many skills necessary for future art endeavors. Students do not need to go into the art field to take this course. Lab fee - \$10.00.

Gr. 11-12 All Year Prerequisite: Successful completion of 2 or more art courses **and** instructor consent

Independent Study Art – is open to seniors with a strong interest in a specific area of art. Lab fee -\$8.00.
Gr. 12 Semester Prerequisite: Successful completion of 2 or more art courses **and** instructor consent

Teacher Assistant Art – is open to seniors who will work as a teacher's assistant with students in an art class and aid with the general maintenance of the art classroom.

Gr. 12 Semester Prerequisite: Successful completion of 2 or more art courses **and** instructor consent

BUSINESS & INFORMATION TECHNOLOGY

REQUIRED COURSES:

GRADE 12

Financial Literacy **OR**
Honors Financial Literacy

Financial Literacy – starts students on the path of becoming a competent consumer. This course provides an excellent foundation for buying cars, homes, insurance, clothes, food, etc. and teaches how to manage a checking account, credit cards, a budget, and investing. You will learn about scarcity, impacts of decisions, consumer rights, laws, and responsibilities. Students will accumulate resources and information for future reference. Websites, current periodicals, textbook, and other resources are used.

Gr. 12 Semester Prerequisite: none

Honors Financial Literacy – is a practical study of consumer problems and consumer choice. Selected topics include: budgeting and family resource management, sources of consumer information, help in solving consumer problems, government taxing and spending, and consumer decision making in such areas as transportation, insurance, financial institutions, consumer goods and services, housing, and credit. This course may offer transcribed/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 12 Semester Prerequisite: none

BUSINESS/MARKETING ELECTIVE COURSES:

Business Exploration – provides a foundation for understanding business. This course studies forms of business, economics (supply/demand curves; inelastic demand; shifts in demand/supply; Law of Diminishing Returns; circular flow of money; money supply and other concepts), international trade, business careers, current events and more. Students will create a partial business plan for a business of their choice.

Gr. 9-12 Semester Prerequisite: none

Entrepreneurship – Do you wonder what it would be like to own your own business? Explore business ownership and management through this class as well as learning hands-on through our school store, The Red Zone. You will learn about famous entrepreneurs throughout history, how they started their business and what made them so successful. You will also learn to solve business problems and determine the needs and wants of your customers while tailoring your business to them. This is a great course for everyone to take!

Gr. 9-12 Semester Prerequisite: none

Intro to Marketing – Through this course you will learn the fundamentals of marketing through creative group projects and hands-on learning experiences through our school store, The Red Zone. Explore marketing strategies including (but not limited to) new product development, marketing research, selling, promotional strategies, advertising and branding. This course is beneficial for all, and concepts can be applied to everyone and every career.

Gr. 9-12

Semester

Prerequisite: none

Sports and Entertainment Marketing – Explore marketing concepts through the sports and entertainment industry. Create your own sports team and stadium by learning marketing concepts and applying them to your own sports franchise. You will also explore topics including sports careers, promotions, branding, licensing, market research, product development and pricing. Students will gain hands-on experience throughout school store, The Red Zone.

Gr. 9-12

Semester

Prerequisite: none

Entrepreneurship II - Looking for a hands-on course in running a business? Get first-hand experience in this course! This course revolves around the creation and operation of the Raider Apparel & Printing Shoppe. You will learn about product planning, pricing/finances, human resources, promotions, selling, market research, and more. This course may offer transcripted/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 10-12

Semester

Prerequisite: Entrepreneurship or Business Exploration

Social Media Marketing –Explore Social Media Marketing and Digital Marketing to create a deeper level of understanding of the world of Marketing. Topics included will be social media tools, such as Instagram, Facebook, Twitter, and SnapChat (along with many more), and how they're being used effectively to market products and brands. Marketing students will gain hands-on learning experiences through our school store, The Red Zone.

Gr. 10-12

Semester

Prerequisite: Intro to Marketing, Sports and Entertainment Marketing **OR** Instructor Consent

Accounting I – Learn to record business transactions using the double-entry accounting system. Students will be following the 9-step accounting cycle to record business transactions using the double-entry accounting system along with GAAP (Generally Accepted Accounting Principles). Students will cover recording entries in the General Journal, posting to the General Ledger, creating financial statements, using computer accounting software and more for a service business.

Gr. 10-12

Semester

Prerequisite: none

Accounting II – Continue to learn more accounting principles which include using special journals, adjusting entries, selling stock, inventory control, and more with merchandising business. Students will also experience these skills using accounting software.

Gr. 10-12

Semester

Prerequisite: Accounting I

Accounting III – Explore the world of Corporation Accounting which includes topics such as: Notes Receivable, Notes Payable, Short-term investments, Long-term Liabilities, and more. This class will meet part of the NTC Dual Credit requirement for NTC's Accounting I class.

Gr. 11-12

Semester

Prerequisite: Accounting II

Accounting IV – Continue to explore the world of Corporate Accounting by looking at topics such as: Cash Flows, Bonds, Managerial Accounting, and more. The QuickBooks section introduces basic accounting concepts, set up and management of QuickBooks company files. The learner will navigate through the software by setting up users, entering beginning balances, and creating non-inventory items. Introduces customers and vendors by entering and paying bills, writing checks, creating invoices and sales receipts. Demonstrates achievement by producing reports and graphs. This course may offer transcripted/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 11-12 Semester Prerequisite: Accounting III

Street Law – covers constitutional, criminal, civil and contract law as it affects everyday life. Explore criteria for different types of crimes. Explore how laws are interpreted, as well as the effects of the Amendments 1-6 of the U.S. Constitution.

Gr. 11-12 Semester Prerequisite: none

Independent Study Store Manager – Students will work with daily operations of The Red Zone and the concession stand. Duties may include creating promotions, managing social media, creating layouts, managerial duties, stocking, inventory, ordering new inventory, and other store/concessions related activities.

Gr. 12 Semester or year Prerequisite: Instructor Consent

INFORMATION TECHNOLOGY ELECTIVE COURSES:

Digital Web Tools – Create and edit photos and videos using online tools, learn about social media tools, edit interactive presentations, and be introduced to animation and web pages. The knowledge and skills acquired in this class will enable students to successfully perform and interact in today's technology-driven society.

Gr. 9-12 Semester Prerequisite: none

App Development and Design – Create a new app, website, or product to solve a problem of your choice. Students will experience topics like app development and 3-D printing, and how to create a product that maximizes the user experience.

Gr. 9-12 Semester Prerequisite: Digital Web Tools or Exp Web Design/
Programming

Exploring Computers & Basic Web Design – Dive into the World of Computing and Technology. Explore evolution of computers as well as computer and IT related careers. Topics include the history and evolution of computers, computer hardware and software, internet and networking, binary and hexadecimal language, introduction to HTML, and flow charting. Students will create/modify web pages using HTML tags and style the web pages with CSS.

Gr. 9-12 Semester Prerequisite: none

Intro to Gaming – Jump into the world of gaming with this course. This course is an introduction to gaming and animation including study of design, navigation, and graphics. Students will work with Alice, GameStar Mechanic, Scratch and other various programs to develop object-oriented programming skills. Students will also learn about gaming careers, what makes an effective game, and the responsibilities of becoming part of a game design team. This course is great for students with a personal interest in gaming and computer programming.

Gr. 9-12 Semester Prerequisite: none

Web Design and Programming – In this course students will learn how to add format to a webpage by writing CSS code. Continue to write computer programs using JavaScript. Students will also create flow charts to outline the programs.

Gr. 11-12

Semester

Prerequisite: Exploring Web Design & Prog or Inst.
Consent

IT Essentials – provides an in-depth exposure to PC hardware and operating systems. Students study the functionality of hardware and software components as well as suggested best practice in maintenance and safety issues. Through hands-on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. In addition, an introduction to networking is included. This course helps students prepare for the CompTIA's A+ certification. It will also provide a good background for students wishing to take the CISCO networking courses. This course may offer transcribed/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 10-12

Semester

Prerequisite: none

DRIVERS EDUCATION

Driver Education Classroom and Behind-the-Wheel are optional programs for all students. The classroom portion is a nine-week course and runs opposite of Life Management. As a convenience, the Classroom and Behind-the-Wheel instructions will be offered to students during the school day for no credit. The entire cost of both programs is approximately \$400 and is the responsibility of the student and his/her parents/guardians. Students that choose not to enroll in driver's education will be given a study hall for this nine-week period. A frequent question for parents is about the age of their student and the minimum age a child can begin the classroom portion of driver's ed is 14.5. However, you can register for class before 14.5. Currently Crabmann's Driver Education LLC provides the instructions and can be reached at 715-218-3626 or at crabbmans.com.

ENGLISH

- ◆ While the content of each level is similar, the level of skill students practice during each course is different. These skills, such as reading and writing skills, increase in rigor.
- ◆ Placement is based on Standardized Test Scores and teacher recommendation.

REQUIRED COURSES:

GRADE 9

English 9
Honors English 9

This course is an accelerated and enhanced approach to effective written and oral communication. Students will focus on style, structure, and language appropriate for various purposes and audiences and will be actively involved in research methodology, writing, and speaking at advanced levels. As part of the course work, the student will review basic grammar usage, study vocabulary, read selected fiction and nonfiction texts, and utilize technology to develop multimedia products and presentations.

Gr. 9 All Year Prerequisite: none

GRADE 10

English 10
Honors English 10

Focuses on extending students' literary analysis skills by reading and reviewing a variety of world literature including novels, drama, nonfiction, poetry, and short stories. The composition work centers around reviewing conventions and grammar, studying vocabulary, and developing writing skills through essay writing and extended composition work.

Gr. 10 All Year Prerequisite: none

GRADE 11

Language and Composition 11
Honors Language and Composition 11
Advanced Placement Language and Composition 11

Engage students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. Taking the AP exam is optional. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 11 All Year Prerequisite: none

GRADE 12

Literature and Composition 12
Honors Literature and Composition 12
Advanced Placement Literature and Composition 12

Engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone. Taking the AP exam is optional. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 12 All Year Prerequisite: none

ELECTIVE COURSES:

Drama – This course is an extension of the Drama Production each semester. While a production is ongoing, coursework consists of assisting with production elements and studying performance elements of the current production. When the production closes, coursework shifts to study and exploration of dramatic works and analysis of performance and production (i.e. theatre history and appreciation). Coursework includes: reading texts, viewing and analyzing performance and productions, studying theatre history, and crafting costume and scenic design projects.

Gr. 9-12

Semester

Prerequisite: none

Oral/Interpersonal Communication – focuses on developing speaking, verbal and nonverbal communication, and listening skills through individual presentations, group activities, and other projects. Juniors and seniors pursuing any post-secondary degree are encouraged to enroll and learn to conquer the fear of public speaking. This semester long course is an elective and will not replace a required course. This course may offer transcribed/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 11-12

Semester

Prerequisite: none

Written Communication – develops writing skills which include prewriting, drafting, revising and editing. A variety of writing assignments are designed to help the student analyze audience and purpose, research and organize ideas and format and design documents based on subject matter and content. Also develops critical reading and thinking skills through the analysis of a variety of written documents. This semester long course is an elective and will not replace a required course. This course may offer transcribed/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 11-12

Semester

Prerequisite: none

FAMILY AND CONSUMER SCIENCES (FACS)

REQUIRED COURSE:

Life Management – Required course and is a quarter-long. This course aims to assist students in acquiring essential life skills necessary for making well-informed decisions regarding the myriad of issues and personal choices they will encounter in an ever-evolving society. The curriculum covers a range of topics, including the development of consumer skills, identification of personal goals, resources, and values, fostering critical thinking abilities, and exploration of various career paths and essential job skills.

Gr. 9

One Quarter

Prerequisite: none

ELECTIVE COURSES:

Food Exploration – Embark on a delicious journey in Food Exploration! This exciting introductory course is your gateway to mastering basic cooking skills and discovering the wonderful world of food groups. From juicy fruits to sizzling meats and everything in between, you'll learn how to create tasty dishes while having loads of fun along the way.

Gr. 9-12

Semester

Prerequisite: none

Cake 'n Bake 1 – Pastries, bread and pies, oh my! This class will explore the basics of baking. Students will get the skills needed to make breads, pastries, cookies, cakes, decorating, and more. Students will explore careers in the area of culinary and pastries. Please note that this class will work with many allergen foods and it will be impossible to accommodate gluten, egg, and milk allergies.

Gr. 9-12

Semester

Prerequisite: none

Creative Creations – Join us for an exciting journey into the world of Do-It-Yourself crafting! This hands-on class is designed to unleash your creativity through a variety of engaging and practical projects. Whether you're a beginner or an experienced crafter, this class offers something for everyone.

Gr. 9-12

Semester

Prerequisite: none

Cake 'n Bake 2 – This course is designed for students who are eager to enhance their skills and knowledge in baking. Take a deeper dive into the science and artistry of baking, focusing on complex techniques, advanced recipes, and innovative baking methods. Students will explore a variety of baking disciplines, from artisanal bread-making to elegant pastries and confections, emphasizing precision, creativity, and presentation.

Gr. 10-12

Semester

Prerequisite: Cake 'n Bake 1

Culinary Arts – Future foodies and aspiring chefs! Are you curious about turning your love for food into an exciting career? We'll dive deep into advanced culinary skills and explore a variety of cool careers in the food industry. From mastering knife skills and creating Instagram-worthy garnishes to whipping up delicious sauces and perfecting the art of egg preparation—get ready to unleash your inner culinary genius! Students will take the National Restaurant Association's ServSafe Managers test. Passing this test will provide certification for students to work in any restaurant in the country for a 5- year period. This course may offer transcribed/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 10-12

Semester

Prerequisite: none

Global Kitchen – Hey there, food adventurers! Get ready to follow your noses on a whirlwind tour of delicious destinations around the globe. We're diving into the heart and soul of different countries and regions, exploring their people, cultures, festivals, weather, and, most importantly, their mouthwatering foods! From the vibrant streets of Italy to the spicy flavors of Mexico, the sunny Caribbean vibes, the savory delights of Greece, the rich traditions of Africa, the aromatic dishes of China, the spicy sensations of India, and beyond—you'll taste it all!

Gr. 10-12

Semester

Prerequisite: none

Maker to Market – Unlock your creativity and entrepreneurial spirit in this engaging course focused on crafting unique products and launching a small online business! Students will start by exploring various craft techniques, from handmade goods to DIY creations, choosing a product that reflects their personal style and market demand. Throughout the course, participants will develop essential skills in product creation, including design, materials sourcing, and crafting methods. Once their product is ready, students will shift gears to learn effective online marketing strategies.

Gr. 10-12

Semester

Prerequisite: none

Family Foods – Say goodbye to boring meals and get ready to spice up your kitchen for the whole family. In this awesome course, we're diving headfirst into the world of deliciousness, learning new skills that'll have you whip up breakfast, lunch, dinner, and desserts like a pro. Get ready to impress your family and friends with meals they'll rave about!

Gr. 11-12

Semester

Prerequisite: 1 other foods class OR Instructor Consent

Restaurant Management & Cuisine – Ever wondered what goes on behind the scenes at your favorite restaurants? Get ready to uncover the secrets of culinary magic with Restaurant Secrets: Cook Like a Chef and Plate Like a Pro! In this super fun course, you'll not only learn how to whip up some of your all-time favorite dishes, but you'll also master the art of making them look as awesome as they taste. From starters that'll tease your taste buds, to mouthwatering mains, irresistible desserts, and the art of garnishing and plating—it's a culinary adventure like no other!

Gr. 11-12 Semester Prerequisite: 1 other foods class OR Instructor Consent

MASH-ter Chef – Welcome to MASH-ster Chef, where young chefs like you will embark on an exciting culinary journey! Get ready for weekly competitions while learning amazing cooking techniques and unleash your creativity in the kitchen. Whether you dream of becoming a future culinary superstar or just love whipping up delicious dishes, this course is your chance to shine like never before!

Gr. 11-12 Semester Prerequisite: At least one cooking class or instructor Consent

Infant & Toddler Dev. – Whether you're a future parent, a curious student, or just love all things tiny and cute, Infant and Toddler Development is your passport to understanding the incredible journey from babyhood to toddlerhood. Get ready to coo, laugh, and learn together as we explore the magical world of children and discover exciting career paths in childcare! Completion of this course and Foundations of Early Childhood Development will enable a student to be employed as an Assistant Child Care Teacher in a daycare center. This course may offer transcribed/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 11-12 Semester Prerequisite: none

Foundations of Early Childhood Ed. – Embark on an enriching exploration of early childhood development, where you'll gain the knowledge and skills needed to support and nurture young children during their critical early years. Whether you're interested in becoming an educator, working with children, or simply passionate about understanding early childhood growth and development, Foundations of Early Childhood Development is your gateway to making a positive impact on young lives and pursuing fulfilling careers in childcare. Completion of this course and Child Development will enable a student to earn state certification and become eligible for employment as an Assistant Child Care Teacher (ACCT) in a daycare center. This course may offer transcribed/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 11-12 Semester Prerequisite: none

Single Survival – Join us for our exciting class tailored for seniors who are gearing up to live independently! In this course, students will have the opportunity to learn essential skills such as meal preparation, grocery shopping, decorating and outfitting their apartment, financial management, and how to navigate the responsibilities that come with adulthood. Don't miss out on this empowering opportunity to gain the knowledge and confidence needed to thrive on your own!

Gr. 12 Semester Prerequisite: none

MATHEMATICS

All University of Wisconsin Colleges currently require 3 years of math with a minimum of Algebra II to fulfill university entrance requirements. Since requirements vary for technical colleges, public and private colleges, students are encouraged to check for specific information in Student Services early in their high school careers.

<u>Possible math tracks to graduation</u>						
	<u>Option 1</u>	<u>Option 2</u>	<u>Option 3.1</u>	<u>Option 3.2</u>	<u>Option 3.3</u>	<u>Option 4</u> (for 9th who took Algebra 1 8th)
9th	Pre-Algebra	Algebra A	Algebra I	Algebra I	Algebra I	Geometry
10th	Algebra A	Algebra B	Geometry	Geometry	Geometry	Algebra II
11th	Algebra B	Geometry	Algebra II	Algebra II	Algebra II	Pre-Calculus
12th	Geometry	Algebra II	Pre-Calculus	College Algebra	Math for the Trades	Calculus AB
<ul style="list-style-type: none"> All students must complete 3 consecutive years of Math as they begin high school and are encouraged to take a 4th year for career and college readiness 						
<ul style="list-style-type: none"> Math for the Trades is a 4th year choice for seniors only 						
<ul style="list-style-type: none"> College Algebra is a 4th year choice for seniors that earned a C or higher in Alg 2 						
<ul style="list-style-type: none"> 4-year colleges prefer students to have successfully completed 3 years of math with success in Algebra 2 at minimum. 						
<ul style="list-style-type: none"> Students wanting advanced math options may be allowed to take two math courses in one year with math department approval 						

Classroom graphing calculators are available, but students are welcome to purchase their own basic, scientific calculator. The provided graphing calculators are allowed to be used on the ACT, SAT, Pre-ACT Secure, PSAT/NMSQT.

Courses offered:

Pre-Algebra – This course emphasizes the ordering and comparison of whole numbers, integers, fractions, and decimals, along with their use in the four basic operations. Other operations such as absolute value, exponents, and square roots will be learned. The concept of the variable and solving/graphing linear equations is introduced. Students will also calculate various measurements and determine the basic properties of geometric figures.

Gr. 9

All year

Prerequisite: Placement determined by 8th grade teacher and test scores

Algebra A – Students will continue in their study of expressions, equations, and radicals. This course focuses heavily on interpreting, graphing, and writing linear equations. Solving linear systems of equations and identifying equivalent expressions is also emphasized.

Gr. 9-10

All year

Prerequisite: Pre-Algebra OR 8th grade teacher
Placement and test scores

Algebra I – This course includes the writing and graphing of linear equations, the study of the properties of the real number system, and the development of skills in solving equations, inequalities, and systems. Students explore polynomials, rational expressions, radicals, exponential relationships, and quadratic functions.

Gr. 9

All year

Prerequisite: Placement determined by grades and
test scores

Geometry – This course is designed to build and strengthen spatial awareness and reasoning. Algebra is used to solve problems involving angles and shapes that are tied back to real world applications. New tools such as the Pythagorean Theorem and trigonometry will be used to find side lengths and angles to triangles, and ultimately the area and perimeter of regular polygons. Additionally, students will develop reasoning skills to develop proofs about triangles and composite shapes. This class will also spend time focusing on probability and statistics within a simple set.

Gr. 9-12

All year

Prerequisite: Algebra 1 or Algebra A and B

Algebra B – will begin with a review of the topics covered in Algebra A. Students will study linear systems of equations and inequalities, exponential relationships, quadratic equations, polynomials and factoring, rational equations, and radicals.

Gr. 10-11

All year

Prerequisite: Algebra A

Algebra II – This course is a more advanced study of algebra including quadratic systems and functions and introduction to trigonometry. This course develops a systematic approach to solving problems and will prepare the student for more advanced mathematics. It should be taken if you are planning to continue into Pre-Calculus and/or College Algebra. This course may offer transcribed/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 10-12

All year

Prerequisite: Geometry

Geometry w/Applications – This course will explore various angle relationships, properties of and relationships in triangles, perimeters and areas of two-dimensional figures, surface areas of 3D figures, and volumes of 3D figures. Linear equations and transformations of figures will also be covered topics. New tools such as the Pythagorean Theorem and trigonometry will be used to find side lengths and angles to triangles. Algebra will be used to solve problems involving angles and shapes that are tied back to real world applications. We will also be working with various conversions of units, square units, and cubic units.

Gr. 11-12

All year

Prerequisite: Algebra I or Algebra B

Pre-Calculus – is an in-depth study of functions, including the functions of trigonometry and analytic geometry. Students who complete this course will be prepared to take a calculus course or any other fifth year advanced mathematics course. Calculator based graphing technology is incorporated.

Gr. 11-12

All year

Prerequisite: Algebra II

College Algebra with Applications – will cover those skills needed for success in many areas of postsecondary education. Topics include the real and complex number systems, polynomials, exponents, radicals, solving equations and inequalities (linear and nonlinear), relations and functions, systems of equations and inequalities (linear and nonlinear), matrices, graphing, conic sections, sequences and series, combinations, and the binomial theorem. This class is rigorous and will prepare you for your college placement exams. It is also transcribed/dual credit through Northcentral Technical College and accepted at all 4-year UW colleges. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 12 All year Prerequisite: C or higher in Algebra II

Advanced Placement Calculus AB – is a college level calculus course based on the recommendations of the Advanced Placement Program Mathematics Committee. Taking the AP exam is optional. This course may offer transcribed/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 11-12 All year Prerequisite: Pre-Calculus

Advanced Placement Calculus BC – is a college level calculus course that follows Calculus AB, based on the recommendations of the Advanced Placement Program Mathematics Committee. Taking the AP exam is optional. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 12 All year Prerequisite: AP Calculus AB

Math for the Trades – is a review and application of basic arithmetic skills involving whole numbers, fractions and decimals. Introduction and application of percentages, area, volume, ratios and proportions will also be covered. The measurement system, angle, perimeter, square and board feet and formulas for geometric shapes as well as algebra will be taught. This course may offer transcribed/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 12 All year Prerequisite: none

MUSIC

Band – is comprised of two concert ensembles: **Concert Band** and **Symphonic Band**. (These bands combined make up the marching band.) Members are required to attend all performances and all scheduled lessons. Placement in any band is determined through an audition held in the spring.

Gr. 9-12 All Year Prerequisite: Minimum of 2 years band experience on either a woodwind, brass or percussion instrument

Raider Choir -- is open to all students grade 9-12. Do you like singing but you're not sure if you want the commitment of all the extra performances? This choir is for you! This ensemble meets daily and focuses on beginning and intermediate choral literature. This class will fulfill the fine arts requirement as well as prepare students for the auditioned choirs. Raider Choir performs at the Christmas Concert, Mid-Winter Concert and the Spring Concert! Members are required to attend all performances.

Gr. 9-12 All Year Prerequisite: none

Men's Choir – is open to all 9-12 male students. This choir will feature tenor, baritone, and bass voices that will sing a variety of musical styles. This ensemble meets daily and focuses on beginning and intermediate choral literature. No prior experience or musical skill is required. This choir will give you the opportunity to explore your voice and learn to sing in a positive and supportive environment. The Men's Choir performs at the Christmas Concert, Mid-Winter Concert and Spring Concert. Members are required to attend all performances.

Gr. 9-12 Semester/Year Prerequisite: none

Momentum Choir – is an auditioned group of singer/dancers and is open to students in grade 9-12. This ensemble meets daily and focuses on a new customized show each year in addition to a variety of choral literature. The show choir performs at our Christmas Concert, 5 show choir competitions, the Spring Concert and WSMA sanctioned events. Along with their competition season, we host our annual "Red White Spotlight Show Choir Competition" that brings together show choirs from around the Midwest to perform in Raider Hall. Members are required to attend all performances, practices, and all scheduled lessons. Members of Momentum also have the opportunity to audition for Take Note, the extracurricular acapella choir.

Gr. 9-12 All Year Prerequisite: Audition

Concert Choir - is an auditioned group of singers and open to students in grade 9-12. The Concert Choir consists of 28 singers: 8 Sopranos, 8 Altos, 6 Tenors, and 6 Bases. Concert Choir meets daily and focuses on a wide variety of advanced choral literature. The Concert Choir is the top choir in Medford High School and performs at our Christmas Concert, Mid-Winter Concert, the Spring Concert and WSMA sanctioned events. This ensemble will also have the opportunity to perform in choral competitions throughout the year! Members are required to attend all performances, practices, and all scheduled lessons. Members of Concert Choir also have the opportunity to audition for Take Note, the extracurricular acapella choir.

Gr. 9-12 All Year Prerequisite: Audition

Music History & Literature – This course is designed for, but not limited to, students who plan on music as a major field of study at the college level. This course deals with the styles of performance and literature from medieval through the present. Must be enrolled in either band or choir concurrently.

Gr. 11-12 Semester Prerequisite: Instructor Consent

Music Theory – This course is designed for, but not limited to, students who are interested in a career in a music profession. Students will study: note identification, rhythm identification, major scales, minor scales, chords, chord progressions, composition, and chorale analysis. Must be enrolled in band or choir concurrently.

Gr. 11-12 Semester Prerequisite: Instructor Consent

Music Application: Composition and Songwriting - This course is designed for students who have a passion for music and want to dive into the compositional side of music. In this course we will cover some music theory concepts, how to write music, how to use notation software, compositional techniques used throughout history and have the opportunity to compose a piece of music that will be premiered in the second semester.

Gr. 11-12 Semester Prerequisite: Minimum of 2 years in a music class and either Music Theory or Instructor Consent

PHYSICAL EDUCATION & HEALTH

REQUIRED COURSES:

Health – This course includes topics such as the human body structure and function, CPR, mental/emotional health and disorders, suicide prevention, chemical use/abuse, tobacco use, diseases, and human growth and development.

Gr. 10	Semester	Prerequisite: none
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Students have the opportunity to participate in the following levels of physical education classes. In these classes students will participate in a variety of team and individual sports and activities, as well as strength and conditioning. The pool is also utilized.

Phy Ed 9/10

Gr. 9-10	Semester	Prerequisite: none
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Strength and Conditioning

Gr. 10-12	Semester	Prerequisite: Phy. Ed 9/10
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Phy Ed 11/12

Gr. 11-12	Semester	Prerequisite: Phy. Ed 9/10
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Phy Ed Just Girls

Gr. 11-12	Semester	Prerequisite: Phy. Ed 9/10
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Phy Ed Just Boys

Gr. 11-12	Semester	Prerequisite: Phy. Ed 9/10
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PRE-ENGINEERING

What is Project Lead the Way (PLTW)?

The PLTW Pathway to Engineering (PTE) program is a sequence of courses, which follows a proven hands-on, real-world problem-solving approach to learning. Throughout PTE, students learn and apply the design process, acquire strong teamwork and communication proficiency and develop organizational, critical-thinking, and problem-solving skills. They discover the answers to questions like how things are made and what processes go into creating products? Students use the same industry-leading 3D design software used by companies like Intel, Lockheed Martin and Pixar. Students apply biological and engineering concepts related to biomechanics – think robotics. They design, test and construct devices while working collaboratively on a culminating capstone project. It's STEM education and it's at the heart of today's high-tech, high-skilled global economy.

Pathway to Engineering – MASH Engineering Program

- IED – Introduction to Engineering Design
- CEA – Civil Engineering and Architecture
- ES – Bioengineering
- POE – Principles of Engineering
- PLTW Capstone

How Does a Student Become Eligible for College Credit?

Any student from a PLTW-certified school who has met the requirements set by the universities is eligible for college-level credit. See Mr. Swedlund or Mr. Gasser for more information.

Courses offered:

IED (Introduction to Engineering Design) – Students will use Autodesk Inventor 3d modeling software and 3d printers to design and build solutions to problems. This course is valuable for someone looking into the fields of construction, woodworking, mechanics, machining, and welding. This class is a must for anyone looking into a career in all fields of engineering or packaging.

Gr. 9-12 All Year Prerequisite: none

CEA (Civil Engineering and Architecture) - Students will use Autodesk Revit architecture software to design floor plans and 3d models of houses, buildings, and building lots. They will also be introduced to surveying, building codes, site development, plumbing, electrical, rainwater calculations, building structures, and materials of construction. This course is valuable for someone looking into the fields of building construction, road construction, architecture, civil engineering, or interested in learning about houses and designing them.

Gr. 10-12 All Year Prerequisite: Geometry (can be taking it while in the class)

ES (Bioengineering) - Students investigate and design solutions for real world challenges related to (1) genetic engineering and food security, (2) renewable energy, and (3) safe drinkable water. The environmental sustainability bioengineering course develops students' thinking skills and prepares them for emerging careers such as Genetic Engineering, Biomedical Engineering, Bioengineering, Chemical Engineering and Environmental Engineering. Applying their knowledge through hands-on activities and simulations, students research and design potential global solutions to real world challenges.

Gr. 10-12 All Year Prerequisite: Biology (may be taken concurrently)

POE (Principle of Engineering) - This is a hands-on lab style course where students will be building and programming robots to perform specific tasks. They will also be learning about and performing labs on heat transfer, simple machine calculations, electricity, beam load transfers along with exploring all the different fields in engineering. This class is a must for anyone looking into a career in engineering. It is also valuable for fields of electromechanical technology, machining, and automation fields.

Gr. 10-12 All Year Prerequisite: Geometry (can be taking it while in the class)

PLTW Capstone (Formally EDD Engineering Design & Development) - This is the capstone course for PLTW where students work in teams to solve problems of their own choosing. Under the guidance of a community mentor, teams employ all the skills and knowledge gained through previous coursework to brainstorm, research, construct and test a model in real-life situations (or simulations); document their designs; and present and defend the designs to a panel of experts.

Gr. 12 All Year Prerequisite: IED, CEA, ES or POE

SCIENCE

All University of Wisconsin colleges currently require 3 years of science to fulfill university entrance requirements. Since requirements vary for technical colleges, public or private colleges, students are encouraged to check for specific information in Student Services early in their high school careers.

- While the content of each level is similar, the level of skill students practice during each course is different. These skills, such as reading and writing skills, increase in rigor.
- Placement is based on standardized test scores and teacher recommendation.

REQUIRED COURSES:

GRADE 9

Physical Science

Honors Physical Science

First semester consists of basic physics, including energy, electricity, magnetism, machines, and Newton's 3 Laws. Second semester will include basic chemistry, including the atomic model, matter, periodic table, and chemical equations along with units on earth and space science. Throughout the course, problem solving and scientific investigation skills will be stressed.

Gr. 9

All Year

Prerequisite: none

GRADE 10

Biology

Honors Biology

Investigates the living world and how it affects our lives. The course content includes: ecology, cells, cell energies, heredity, genetics, classification, evolution, diversity of organisms and structure, and function of plants and animals. The student discovers and learns to appreciate the interrelationships of the various forms of life. Lab activities form the nucleus of this course.

Gr. 10

All Year

Prerequisite: Physical Science

GRADE 11

Applied Chemistry

Chemistry

Honors Chemistry

The Applied Chemistry curriculum was designed to make chemistry applicable to everyday life. Students will gain a better understanding of common substances and their behavior. Content covered will include: measurements, matter and its interactions, basic atomic structure and theory, and chemical reactions. This course will focus on real world applications. This course is for students who are not planning to pursue a four-year college degree.

Chemistry is the study of matter, its properties, and its interactions. Students in this course will work in the chemistry laboratory, solve problems mathematically, and learn concepts that will prepare them for an introductory college chemistry course. There will also be an emphasis on skills such as interpretation of data, understanding scientific investigations, and evaluating scientific models.

Gr. 11

All Year

Prerequisite: Physical Science

ELECTIVE COURSES:

Earth and Space Science – This course deals with selected topics in earth and space science. Earth science topics to be covered may include: minerals and rocks, plate tectonics, earth's geologic history, weather and climate, and mapping. Space science topics may include: origin of the universe, the electromagnetic spectrum, star evolution, planets, gravitation, and the history of astronomy.

Gr. 9-12

Semester

Prerequisite: "C" or better in Algebra I

Advanced Placement Biology – is a course that covers in greater scope the concepts, knowledge, and skills introduced in Biology at MASH. This course is designed to offer students topics that are covered in a freshman biology course at the university level. Greater amounts of time and effort are expected on the part of the student. Reading requirements for the course are rigorous and require a daily commitment in order to stay engaged in the class. Laboratory activities suggested by the College Board are conducted to give the student a fair representation of a university-level biology course. In addition to the College Board laboratories, additional activities/labs will supplement the different units effectively. Taking the AP exam is optional. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 11-12

All Year

Prerequisite: minimum GPA of 3.0 in Biology; and Chemistry (may be taken concurrently)

Human Anatomy & Physiology – is the basic study of the anatomy and physiology of the human body systems. Laboratory activities form the nucleus of this course. (A fetal pig will be used as a dissection specimen.) Geared to college/technical college bound students.

Gr. 11-12

Semester

Prerequisite: "C" or better in Biology is recommended

Honors Physics – physics is the study of motion, forces, and energy. Students in this course will examine these topics in the context of Mechanics, which includes simple motion, forces, collisions, and torque. The course will include significant amounts of mathematical problem solving, along with technology-based laboratory investigations.

Gr 11-12

All Year

Prerequisite: "C" or better in Algebra II

Medical Terminology – is designed for students interested in the medical field. Using the word-building system, this course teaches students to pronounce, define, build, spell and analyze medical terms. This course is based on the anatomy and physiology of the human body's system. Medical Terminology will be taught as a Hybrid class using the online assessment site called Canvas through Northcentral Technical College. All assessments will be taken online. Assignments and activities will also be completed online. This course may offer transcribed/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 11-12

Semester

Prerequisite: "C" or better in Biology is recommended

Advanced Placement Chemistry – is a course that covers in greater scope the concepts, knowledge, and skills introduced in Chemistry at MASH. This course is designed to offer topics that are covered in a freshman chemistry course at the university level. Greater amounts of time and effort are expected on the part of the student. Reading requirements for the course are rigorous and require a daily commitment in order to stay engaged in the class. Laboratory activities suggested by the College Board are conducted to give the student a fair representation of a university-level chemistry course, along with additional activities/labs. Taking the AP exam is optional. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 12

All Year

Prerequisite: minimum GPA of 3.0 in Chemistry; and
Algebra II (may be taken concurrently)
or Teacher Recommendation

SOCIAL STUDIES

- While the content of each level is similar, the level of skill students practice during each course is different. These skills, such as reading and writing skills, increase in rigor.
- Placement is based on Standardized Test Scores and teacher recommendation.

REQUIRED COURSES:

GRADE 9

Human Geography

Advanced Placement Human Geography

Introduces students to how we organize space and society and how we make sense of others and ourselves in our localities, regions, and the world. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. In addition, students will think about and interpret maps. They will understand the association among phenomena in different places. Students will also interpret the relationships among patterns and processes as it relates to different areas. Finally, they will define regions and characterize and analyze the changing relationships between place. Taking the AP exam is optional. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 9

All Year

Prerequisite: none

GRADE 10

US Government and Politics

Advanced Placement US Government and Politics

Will give students a logical viewpoint on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples to highlight those concepts. It also requires familiarity with the various documents, institutions, groups, beliefs and ideas that comprise U.S. government and politics. Students will become familiar with the variety of viewpoints and explanations for various behaviors and outcomes amongst citizens and the government that represents them. Taking the AP exam is optional. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 10

All Year

Prerequisite: none

GRADE 11

United States History

Advanced Placement United States History

Chronologically examines the history of the United States, beginning with Pre-Columbian Societies and early inhabitants of the Americans and culminating with present-day American issues. Themes within the course curriculum include American Diversity, American Identity, American Culture, Demographic Changes, Economic Transformations, Environment, Globalization, Politics and Citizenship, Reform, Religion, Slavery and its Legacies, and War and Diplomacy. Students will be introduced to a wide range of primary and secondary source materials as a means of investigation, analysis, understanding of the United States History. Taking the AP exam is optional. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 11

All Year

Prerequisite: none

ELECTIVE COURSES:

Ancient Civilizations – Projecting the future of humanity is best done by studying those who came before us. Take a step outside of your comfort zone and delve into a world outside of your own as we examine the world's most prominent ancient civilizations. We will start our journey by taking a trip back in time as we explore the fertile crescent and the rise and fall of the Egyptian Empire. Next, we will cross the Mediterranean to inspect the infamous city-state of Sparta. Fast forward 900 years to the formation and collapse of the Roman Empire. Visit the Mongolian steppe which would be the birthplace to the world's largest ancient empire. Finally, traverse across the Atlantic Ocean and discover the Aztec empire.

Gr. 9-10

Semester

Prerequisite: none

U.S. Military History – focuses on the international affairs of the United States during the 18th, 19th, and 20th Centuries. Through the study of American's Wars, including the American Revolution, the American Civil War, World War I, World War II, Korea and Vietnam, this course will analyze the social political, and international impact of these wars on the United States.

Gr. 11-12

Semester

Prerequisite: none

Intro to Sociology – is devoted to the study of the structure of social life; the way groups are put together, and the way they function. It will also explore the three major philosophical views pertaining to the study of society, the Conservative, Social Democrat and Libertarian points of view.

Gr. 11-12

Semester

Prerequisite: none

Intro to Psychology – is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students will also learn about the ethics and methods psychologists use in their science and practice.

Gr. 11-12

Semester

Prerequisite: none

Abnormal Psychology – is designed to explore historical views and current perspectives of abnormal behavior. Abnormal Psychology will emphasize major diagnostic categories and criteria, individual and social factors of maladaptive behavior, and types of therapy. The course will also include methods of clinical assessment and research strategies.

Gr. 11-12

Semester

Prerequisite: Intro to Psychology OR Advanced Placement Psychology

Advanced Placement Psychology – is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students will also learn about the ethics and methods psychologists use in their science and practice. Taking the AP exam is optional. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 11-12

All Year

Prerequisite: none

TECHNOLOGY EDUCATION

Introduction to Technology A – introduces students to manufacturing processes involving woods. This course deals with the development of skills, techniques and safe use of hand/power tools and equipment. Classification and application of materials and calculation of materials costs will be covered. Students will develop skills needed to complete a series of projects and design solutions. Problem solving, planning, drawing and design, measurement, quality control and safety are all stressed as students' design and build products in wood. Project fees may apply.

Gr. 9-12

Semester

Prerequisite: none

Introduction to Technology B – This course examines the impact trades have on communities and the world. Skills that are covered include estimating, drafting, blueprint reading, and home maintenance. Students will become more familiar with career opportunities and skills required within the related trade fields through hands-on training. Students will also have a basic introduction to shielded metal arc welding and aerodynamics. Project fees may apply.

Gr. 9-12

Semester

Prerequisite: none

Just for Girls Tech – Students will begin or advance their development in woodworking, craftsmanship, and measurement by designing and building several small woodworking projects and the possible opportunity of a choice project. In this all-girls class, you will be working on mastering skills in problem solving, machine/tool operation, time management, and orthographic drawing designs. If time permits, a small exploration of welding may also occur. Project fees may apply.

Gr. 9-12

Semester

Prerequisite: none, but Intro to Tech A preferred

Metal Manufacturing I – covers the basic metal machinery fundamentals with practice in using the drill press, plasma cutter, cutting saws, lathes, and milling machine. This course will also present the basic fundamentals of welding with practice in arc, gas and wire-feed welding.

Gr. 10-12

Semester

Prerequisite: none

Small Engines – covers both 2-stroke and 4-stroke cycle engines. Includes disassembly, inspection, reassembly, maintenance, and troubleshooting of small engines. Students will also learn how to measure with a caliper and micrometer.

Gr. 10-12

Semester

Prerequisite: none

Wood Manufacturing – students work as a team to design, draw, and produce a piece of furniture. Teams elect leaders who are in charge of determining the specifics of the project. All pieces/parts of the product are produced by each team member. Team members then pick their favorite pieces of the project to assemble, stain, and finish individually. The class focuses on the quality and consistency of each manufactured piece. Project fees may apply.

Gr. 10-12	Semester	Prerequisite: Intro to Tech A or B or Just for Girls Tech
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Highway Construction Skills Training (HCST) – is a program that begins the training process for individuals who are interested in a career in the construction industry as heavy equipment operators, laborers, mechanics, or surveyors. These courses may offer transcribed/dual credit through Fox Valley Technical College. (Refer to Advanced Course Opportunities on pages 11-13 for more information.)

As a part of this program students take a series of courses offered through Destinations Career Academy of Wisconsin. This program prepares students to enter an apprenticeship training program to become a journeyman in the construction industry. **The classes meet before school from 7:00 a.m. to 8:00 a.m. Daily attendance is mandatory.** For a full list of HCST program requirements follow link to [HCST Checklist of Requirements](#) on the MASH website under student services/careers & camps/career exploration.

Courses include:

Basic Grade Construction Math

Gr. 10-12	Semester	Prerequisite: none
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Construction Exploration

Gr. 10-12	Semester	Prerequisite: none
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Up to 2 of the following 3 options can be taken concurrently

Intro Basic Equipment

Gr. 11-12	Semester	Prerequisite: Basic Grade Construction
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Intro to CDL

Gr. 11-12	Semester	Prerequisite: Basic Grade Construction
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Basic Maintenance

Gr. 12	Semester	Prerequisite: Basic Grade Construction & Intro Basic Equipment
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Intro to Construction – This course examines the building trades industry. The topics that are covered include tool and workplace safety, general contracting, drafting, blueprint reading, carpentry, and building codes. Students will become more familiar with career opportunities, apprenticeship programs and skills required within the construction field through project-based learning. School and community projects may also be incorporated into this course.

Gr. 11	Semester	Prerequisite: Intro to Tech A or B or Just for Girls Tech
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ABC's of the Automobile – provides a simple, basic approach to understanding the modern automobile. The class will provide lifetime benefits and skills to students. Simple repair and maintenance procedures will be demonstrated. Students will experience hands-on related activities in the lab. Students enrolled in this course **DO NOT** need to have their own vehicle to work on.

Gr. 11-12	Semester	Prerequisite: none
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Auto Mechanics I – This course is recommended for students who are in search of knowledge related to how the automobile works and how to perform basic maintenance needed to keep an automobile in good operating condition. Content taught in the classroom includes, but is not limited to: basic engine operation, lubrication system function and maintenance, basic ignition system maintenance, brake system operation and maintenance, steering and suspension system maintenance, and basic electrical system diagnosis and maintenance. In addition to maintenance of the automobile, other units of instruction will include college and career awareness and exploration and buying a used car. During lab time students will learn proper use of tools and equipment, how to recognize common problems with automobiles, and will learn skills to keep a vehicle in good operating condition. Students do not need to own a vehicle to be enrolled in this course.

Gr. 11-12 Semester Prerequisite: none

Auto Mechanics II – This course is for the student that wishes to further expand their knowledge of the automobile. Students will learn: identification of engine components – their design, construction, and applications, how to use technical service manuals including the use of computerized databases to solve auto related problems, diagnosis and repair of the automobile's electrical/electronic systems, students will study computerized engine controls, diagnosis of steering and suspension system problems, and learn how to complete a basic wheel alignment, ABS Systems, & SIR and SRS Airbag Systems. Students will also learn skills related to many careers in the automotive industry.

Gr. 11-12 Semester Prerequisite: Auto Mechanics I

Cabinet Making – students continue developing their woodworking skills and craftsmanship by designing and building their own piece of furniture while learning and utilizing more advanced machine operations. Quality craftsmanship, problem solving, time management, and measurement skills are stressed. Project fees may apply.

Gr. 11-12 Semester Prerequisite: Wood Manufacturing

High Mileage Vehicle – students research, design and develop a single person, fuel efficient vehicle, powered by a single cylinder, 4-stroke engine. The students attend and test their vehicle in a competition at Road America Elkhart Lake in the spring.

Gr. 11-12 All Year Prerequisite: Small Engines and Metal
Manufacturing is highly recommended

Metal Manufacturing II – includes advanced welding and machining procedures. Units covered will Include: reading weld symbol and prints; overhead, vertical and horizontal arc welding position and TIG welding. Students will choose their own project. This course may offer transcribed/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 11-12 Semester Prerequisite: Metal Mfg. I

Electromechanical 1 – this course will cover the basics of OSHA safety programs and machine safety. It will also cover the use of digital volt meters, basics of Direct Current (DC) and Alternating Current (AC) electrical circuits and components along with building and testing construction, engineering, and electromechanical maintenance. This course may offer transcribed/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 11-12 Semester Prerequisite: none

Electromechanical 2 – this course continues on from EM1. In this course students will work on AutoCAD drawing program doing two dimensional layouts for industrial applications. They will also work with microcontrollers designing and building circuits that include LED displays, buzzers, motors, relays, switches and sensors. This course may offer transcribed/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.)

Gr. 11-12

Semester

Prerequisite: Electromechanical 1

Electromechanical 3 – this course will build on concepts learned in Industrial Electronics 1 and 2 to build AC and DC circuits along with silicon-controlled devices. Students will build electronic circuits to perform different work tasks in the lab. It also includes an introduction to fluid power (hydraulic and pneumatic) systems and concepts. Students will design fluid power systems and build them in the lab. This course may offer transcribed/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.) This course will run during Electromechanical 1 or 2. Students will work independently with instructor available for help.

Gr. 12

Semester

Prerequisite: Electromechanical 2

Electromechanical 4 – this course will build on concepts learned in Fluid Power systems 1. Students will explore pneumatic system components such as compressors, actuators (linear and rotary) along with pneumatic tubing. They will build various projects in the lab using pneumatic components. Students will also begin using Solidworks 3D modeling software to create various drawings and components for labs. This course may offer transcribed/dual credit through Northcentral Technical College. (Refer to Advanced Course Opportunities on pages 12-13 for more information.) This course will run during Electromechanical 1 or 2. Students will work independently with instructor available for help.

Gr. 12

Semester

Prerequisite: Electromechanical 3

Building Construction – students learn entry level carpenter employment skills such as building layout, framing, siding, shingling, and finish trim of a building. Students also learn about cost estimation of building projects, reading and interpreting blueprints, and basic cabinetry while working on community service projects. Problem solving, time management, and measurement skills are stressed. **(3 credits – 3 hours/day)**

Gr. 12

All Year

Prerequisite: Cabinet Making or Intro to Construction

WORK BASED LEARNING

MASH Employment Partnership – is a year-long program open to seniors interested in obtaining work skills or who are interested in going directly to work after graduation. Students will learn work skills while gaining high school credit and earning a wage. This option requires students to attend regular classes throughout the morning and spend the remainder of the school day at a work site. Acceptance into the program is determined by previous school records. Students must apply for this program during the spring of their junior year. Placement in this program is dependent on work site availability.

Gr. 12

All Year

Prerequisite: none

Mentorship – provides students with the opportunity to explore career options in a real-world setting. Students **must** complete an application. Acceptance into the program is determined by previous school records, attendance history, and job site availability. Any student who was absent more than 10 days during the previous school year must have special approval by the program coordinator.

(1 credit – 2 hour/day)

Gr. 12

Semester

Prerequisite: none

Youth Apprenticeship – is a one or two-year program where students:

- ▶ Follow a career pathway from high school to post-secondary institutions or the workforce
- ▶ Earn a paycheck and school credit while learning from skilled professionals
- ▶ Increase career awareness and improve future employability
- ▶ Receive a state-issued skills certificate which is recognized by employers

Programs are available in the following categories:

- Agriculture, Food and Natural Resources
- Architecture and Construction
- Business Management and Administration
- Education and Training
- Finance
- Arts, Av Technology & Communications
- Health Sciences
- Hospitality and Tourism
- Marketing
- Information Technology
- Manufacturing
- Science Technology, Engineering and Math
- Transportation Distribution and Logistics

Interested students should pick up an application in Student Services or apply online.

Gr. 11-12

All Year

Prerequisite: Varies

WORLD LANGUAGE

Spanish I – emphasizes learning to understand and speak Spanish but also includes basic reading and writing exercises. There is an introduction to Hispanic culture and customs. Students will be graded on daily assignments, oral practice, tests, and projects. All Spanish students may join the Spanish Club, which allows them the opportunity to participate in cultural activities. ***If you are a native or heritage speaker of Spanish (you speak Spanish at home), you will need to be assessed for potential placement in a higher level or heritage Spanish class. ***

Gr. 9-12

All Year

Prerequisite: none

Heritage Spanish – This course is designed for students with an **extensive background in spoken Spanish (Native Speakers)** but little to no exposure to reading/writing. Students will develop knowledge of rules of spelling and grammar through exposure to literature and other primary sources appropriate to their level. Students will also gain knowledge of best practices for translating and tutoring in the target language. This course can be repeated multiple times for credit.

Gr. 9-12

All Year

Placement by instructor assessment

Spanish II – is a continuation of Spanish I, with a little more reading and writing. There is a more in-depth study of life in Spanish speaking countries. ***If you are a native or heritage speaker of Spanish (you speak Spanish at home), you will need to be assessed for potential placement in a higher level or heritage Spanish class. ***

Gr. 10-12

All Year

Prerequisite: Spanish I

Spanish III – will provide the student with continued development in listening, speaking, reading comprehension, and writing skills. The simple past tenses and more complex grammar skills will be introduced, and students will begin to give sustained presentations and dialogs about pertinent topics. Students will learn more about the diversity of Spanish speaking countries.

Gr. 11-12

All Year

Prerequisite: Spanish II

Spanish IV – Students will continue to broaden their skills in conversation, reading, and writing. Students will be introduced to new verb forms, and more advanced grammatical structures. Using magazines, internet sources, and other readings in Spanish, students will broaden their understanding of Spanish culture, civilization, and literature. Much emphasis will be placed on fine tuning advanced grammar skills in preparation for college placement tests.

Gr. 12

All Year

Prerequisite: Spanish III

SPECIAL EDUCATION PROGRAMMING

Medford Area Senior High provides academic courses for students in special education. Placement in any special education program is contingent upon a full and comprehensive evaluation and the IEP team's conclusions with regard to the student's need for special education due to a handicap condition(s). Scheduling for individual courses is accomplished with the assistance of the special education teachers responsible for that program. Courses are dependent upon the student's individualized education plan. Services may be provided within the regular classroom setting with no special education support, with special education support, or in a class taught by a special education teacher. As a part of their transition from school-to-work, students may be placed at a worksite during their junior and/or senior years.

Skills for Success 1 - This course is designed to help students navigate the social and emotional connection to school, teachers, staff, and peers as well as to their own learning and learning styles. The connections created will help them navigate high school. Students will develop mental frameworks, organizational strategies and study skills.

Gr. 9-10

All Year

Prerequisite: IEP Placement

Skills for Success 2 - This course is a continuation of Skills for Success 1 which continues to help students navigate the social and emotional connection to school, teachers, staff, and peers as well as to their own learning and learning styles. The connections created will help them navigate high school as a whole and prepare them for life after high school.

Gr. 11-12

All Year

Prerequisite: IEP Placement

Social Skills - Students with an IEP will learn social emotional competencies that will help them in school, home, and in life. Students will acquire skills through role playing, classroom activities, and field trips in the community.

Gr. 9-12

All Year

Prerequisite: IEP Placement

Applied Business Concepts - The Raider Cafe and Shoppe is a school store combined with a coffee/snack shop. The store is operated by students with teacher supervision. Students are able to practice job skills in a safe and fun environment. Students have the opportunity to use a cash register, small cooking appliances, and practice teamwork skills. The students will practice money skills through opening and closing the register. The proceeds from the money go towards scholarship(s) for students and other student activities.

Gr. 9-12

Semester/All Year

Prerequisite: IEP Placement

Resource Room - Resource Room is a structured study hall for students with an IEP. Students will receive 1:1 or small group instruction in a quiet learning environment. They will receive academic tutoring, mentoring, social skills, and/or college or career readiness.

Gr. 9-12

Semester/All Year

Prerequisite: IEP Placement

Unified/Adaptive Phy Ed – this course combines students of all abilities to participate in developmentally appropriate activities including lifetime activities, physical fitness, and sports. Students will work together to increase competence and confidence in a variety of physical activities. Through ongoing leadership opportunities, members of this course will be empowered to help create a more inclusive and acceptable school environment for all students. Expected learning outcomes include increasing physical fitness, improving activity-specific skills, cooperating and working together with classmates, learning how to make better health & lifestyle choices, and understanding each other's differences.

Gr. 9-12

Semester

Prerequisite: APE/IEP

OTHER COURSE OPPORTUNITIES

Distance Learning classes are offered in various subjects. (See individual department listing for class descriptions.) For more information regarding distance learning classes, please contact your counselor. If the student receives a failing grade in a course or fails to complete a course, the student's parent/guardian, or the student, must reimburse the school district the amount paid by the school district on the students' behalf.

Independent Study provides individual students with the option of exploring topics of special interest in any department or when necessary to resolve scheduling conflicts. Requires approval of instructor, principal, school counselor, parent/guardian and student. **Students are limited to 1 Independent Study per year.**

Gr. 12

Semester

Prerequisite: Department Specific

Teacher Assistant – provides students with the opportunity to work closely with a teacher in a subject area of special interest or ability. Each student will be matched with an individual high school teacher and will work as an in-class assistant. **Students are limited to 1 Teacher Assistant per year.**

Gr. 12

Semester

Prerequisite: Instructor Consent

On-Line Courses are a component of the district's Gifted and Talented Program. These courses are available to juniors and seniors that have exhausted course offerings at MASH. Enrollment in an online course requires approval from the principal and counselor. A student can enroll in a maximum of two (2) A.P. on-line courses per semester. If the student receives a failing grade in a course or fails to complete a course, the student's parent/guardian, or the student, must reimburse the school district the amount paid by the school district on the students' behalf.

Peer Tutor – Students must be willing to assist other students with academic subjects. They are scheduled one hour per day to the Workshop along with a supervising teacher. Attendance, academic strength, and approachability are keys to succeeding in this class. There is a limited number of spots available for this opportunity. Strong math skills are encouraged!

Gr. 11-12

Semester

Prerequisite: An application/interview may be required

The Global Education Achievement Certificate (GEAC) is a nationally recognized program that awards distinction to students who demonstrate readiness for a 21st Century global society. Student Global Scholars who complete the program receive an official certificate from the Wisconsin Department of Public Instruction. See your school counselor, world language, or ELL teacher for additional requirements and information.

Criteria:

- 8 Credits Coursework:
 - 4 credits of a single world language (including English courses for English Language Learners)
 - 4 credits from multidisciplinary courses* with a global focus or perspective in curriculum
- Cultural Literacy: independent review & reflection on 8 works of media, including 4 books
- Participation and leadership in 4 Co-Curricular and other School-sponsored Activities
- Community Service: 20 hours of volunteer service for a project on an intercultural or global issue

*The following courses may be selected to apply towards GEAC credits:

COURSES	CREDITS
Forestry	0.50
Art Exploration	0.50
Hands-On Art History	0.50
Entrepreneurship	0.50
Global Kitchen	0.50
PLTW: Bioengineering	1.00
AP US History	1.00
Human Geography	1.00
Literature & Composition 12	1.00

ENGLISH LANGUAGE DEVELOPMENT

Medford Area Senior High provides English Language Development courses and support for English Language Learners. Classification as an English Language Learner is contingent upon limited English Language Proficiency due to an exposure to a language other than English. English Language Proficiency is evaluated through a WIDA Screener language assessment if a language other than English is indicated on the Home Language Survey. Scheduling for individual courses and English Language Development support is accomplished with the assistance of the ELL teachers responsible for the program. Courses and/or supports are dependent upon the student's Language Development Plan. Services may be provided within the regular classroom setting (as suggested by the ELL teacher) without the presence of the ELL teacher, with the presence of the ELL teacher, or in a class taught by the ELL teacher.

A FINAL WORD

You are about to make one of the most important decisions of your educational career. It is essential that you give thoughtful consideration to your course selections and future plans. While this guide is intended to assist you in that process, it cannot address every individual question you may have. You are encouraged to consult with your teachers and school counselor for further guidance and clarification.

The courses you select in high school should be part of your 4-year plan that reflects your personal goals, provides a solid foundation for continued education, and aligns with your long-term career aspirations. In addition to reviewing this handbook and seeking input from parents and school staff, students are encouraged to plan their participation in activities that complement their academic program, ensuring both curricular and co-curricular experiences contribute to overall growth and development.

Careful planning now will help ensure your success in the future.

What career cluster am I most interested in: _____

CAREER CLUSTERS

Agriculture/Food/Natural Resources
Arts/AV/Communication
Education/Training
Government
Hospitality
Information Technology
Manufacturing
Science/Technology/Engineering

Architecture/Construction
Business/Management/Admin
Finance
Health Sciences
Human Services
Law/Public Service/Security
Marketing
Transportation/Distribution/Logistics

What are some careers that I'm considering: _____

Following graduation, I plan to continue my education or training in/at:

Apprenticeship

Technical College

Military

University

Workforce

