



Cherokee Washington High School

COURSE CATALOG

2025-2026

EMPOWERING LEARNERS.

OUR MISSION

With community involvement, we will empower learners to become contributing members in our changing world.

OUR GUIDING VALUES

- **Gratitude:** We provide abundant opportunities to empower students to reach their full potential academically, creatively and socially.
- **Responsibility:** We foster an environment that allows students, families and community stakeholders to come together for the betterment of our students' education and future.
- **Integrity:** We share relevant and important information with our students, families and the community to maintain open and productive communication.
- **Perseverance:** We will face our problems head on, learn from our mistakes and commit to never giving up. Instead, we will look for new solutions and try new approaches to our problem solving.

NOTICE OF NON-DISCRIMINATION

The Cherokee Community School District offers career and technical programs in the following service areas: Business Education, Health Occupations Education, Family and Consumer Sciences Education, and Industrial Education. It is the policy of Cherokee Community School District not to discriminate on the basis of race, color, national origin, creed, socioeconomic status, religion, sex, marital status, age, sexual orientation, gender identity, or disability in educational programs or employment.

There is a grievance procedure for processing complaints of discrimination. If you have questions or a grievance related to this policy, please contact:

Thomas Ryherd, Equity Coordinator
Cherokee Community Schools
600 W Bluff St
Cherokee, Iowa 51012
(712)225-6767 or tryherdr@ccsd.k12.ia.us

WELCOME!

The Cherokee County School District takes great pride in being able to offer students a wide variety of challenging academic courses at Cherokee Washington High School. The Course Catalog provides information about graduation requirements, course offerings, college requirements, career exploration, academic opportunities, and various grading policies.

As students plan for life during and after high school, is it crucial that they select appropriate and challenging courses. Each student should review and discuss the different course offerings with their current teachers, counselor, academic advisor, and representatives from colleges they may consider attending. Reference the "[College Admissions Requirements](#)" to make sure you're on the right path for the major university of your choice. For further assistance, schedule an appointment with your School Counselor.

We encourage all students to give careful thought to their course elections. Make sure to choose alternative options as well, as classes can fill up quickly.

TABLE OF CONTENTS

Graduation Requirements	4
Course Summary	5
Scheduling Policies & Procedures	6
College Admissions Requirements	8
RAI Scoring, NCAA and NAIA Information	9
Career Pathway Information	11
CWHS Course Offerings	12
Course Descriptions	
• English	13
• Mathematics	15
• Science	18
• Social Studies	20
• Physical Health & Wellness	22
• World Language	23
• Career & Technical Education	24
• Fine Arts	29
Concurrent Enrollment (WITCC)	32
Credit Recovery & Alternative Programs	34

GRADUATION REQUIREMENTS

To be eligible to receive a diploma from CWHS, a student must complete the 49 credit requirements shown below. See the following page for course options that fulfil each requirement.

Department	Required Courses	Credits
English	Core English	6
	English Electives (1 Lit, 1 Lang)	2
Math	Core Math	6
Science	Science 9	2
	Biology	2
	Science Electives	2
Social Studies	Modern American History	2
	World History	2
	Elective	1
	Government	1
Wellness	Health + CPR	1
	Physical Education	4
Miscellaneous	Financial Planning	1
	Electives	17
TOTAL		49

EARLY GRADUATION

CWHS provides for graduation after seven semesters if the student has earned the appropriate credits. Students interested in this option should

- Obtain a copy of the policies and procedures governing early graduation during their Junior year from the Counselor.
- Submit all paperwork and a letter of request by November 1st of their Senior year.
- The school board must approve a request for early graduation.
- Early graduates will be considered alumni of the school after completion of the 1st semester and will still be able to participate in Awards Night and Commencement. However, Early Graduates may only attend Prom if asked by a currently enrolled high school student.

Course Summary

ENGLISH 8 total credits required	SCIENCE 6 total credits required	SOCIAL STUDIES 6 total credits required	MATH 6 total credits required
Must complete all the following	Must complete all of the following	Must complete all of the following	Need to complete 6 credits with any combination of the following
English 1 *	Earth & Physical Science *	American History *	Transitional Math 1 *
English 2 *	Biology *	World History *	Transitional Math 2 *
English 3 *		Government	Transitional Math 3 *
English Electives (must complete 2 credits, 1 literature and 1 language)	Science Electives (must complete 2 credits with any combination of the following)	Social Studies Electives (must complete 1 credit with any of the following)	Algebra 1 *
Films as Literature	Environmental Science	Psychology	Geometry *
College Prep Literature	Forensic Science	Sociology	Algebra 2 *
Career & Technical Writing	Introductory Biology (WIT BIO 105)	History Through Films	Pre-Calculus *
College Prep Writing	Natural Resources & Ecology *	Vietnam War in Depth	Consumer Math *
Communications	Oceanography	Global Insights	Applied Math (WIT MAT 772)
Contemporary Literature	Scientific Research & Design	World Wars	Calculus
Creative Writing	AP Biology *		Calculus (WIT MAT 211)
Mythology	Chemistry *		Statistics (WIT MAT 157)
Oral Interpretation & Acting	Advanced Chemistry		College Algebra (WIT MAT 121)
Publications *	Physics *		(Math sequence will vary according to entry level math course taken)
	Human Anatomy & Physiology 1 (WIT BIO 168)		
	Human Anatomy & Physiology 2 (WIT BIO 173)		
<p>** All students have the option to fulfill graduation elective requirements with Concurrent Enrollment classes provided by a post-secondary institution, through the Senior Year Plus Program. Please refer to the Concurrent Enrollment section of this course catalog for full explanation.</p>			
<p>ALL GRADUATES MUST HAVE:</p> <ul style="list-style-type: none"> • 1 credit of Health (including CPR training) • 1 credit of Financial Planning (must be completed during 12th grade year) • 1 credit of Physical Education each academic year • 1 credit from either the Career Tech or Fine Arts departments 			

* Denotes a yearlong course and will give 2 credits on student transcripts

SCHEDULING POLICIES & PROCEDURES

REGISTRATION GUIDELINES

1. Students are required to take 7 class periods each semester.
2. Students must meet all prerequisites for a course.
3. Courses taken outside of CWHS curriculum, such as WITCC courses or Edmentum courses, must be approved by the Counselor and Principal.
4. Students must take one credit of PE each year.
5. Students may have only one everyday Study Hall.
6. Students may have 1 period at CWHS for every 2 WIT online classes. This will be a study hall period.
7. An additional study hall period can be included if taking 3 or more WIT online classes. There will be no more than 2 study hall periods used for WIT classes.

COURSE AVAILABILITY

Attempts will be made to offer all courses described in this Course Catalog. However, low enrollment courses may be cancelled or scheduled only in alternate semesters/years. In those cases, students will be notified and meet with the school Counselor individually to select alternative courses.

SCHEDULE CHANGES

Changes may be made ONLY for the following reasons:

1. Failure in a required course attempted a previous semester
2. Approved level changes by teacher and counselor
3. Special education placement
4. Significant change in college or career planning
5. Seniors who need courses for graduation
6. Failure to have necessary prerequisite for a course
7. Newly registered student - no previous schedule

Schedule changes will not be made for student convenience or preference. Schedule change requests must be completed with the Counselor within the first 5 days of Quarter 1 or Quarter 3.

DROPPING/ADDING COURSES

- If a student is taking a full schedule (8 out of 8 classes) they are allowed to drop a class up to the 4th week of school; if they are passing the class they are dropping they will receive a withdraw; if a student is failing the class they want to drop they will take a WF (Withdraw Fail).
- In rare circumstances, a schedule change may occur at the discretion of the counselor and principal when deemed appropriate through the 10th week of school (Students will receive a withdraw if they have a passing grade at the change of schedule or an WF (Withdraw Fail) if they have a failing grade). Students who take a withdraw fail, are academically ineligible and will be under the Scholarship Rule of ineligibility for 30 consecutive days.
- If a student drops an online or face-to-face WIT course, they will be put on an Edmentum online course in the same subject area (if available). They will need to pass this Edmentum course before the end of the semester. If this course is not passed, the student will receive a WF on their transcript at the high school.

REMOVAL FROM CLASSES

Students that fail the first semester of a year-long course may be removed from the class in the second semester. This applies to classes that have second semester content that relies heavily on knowledge built in the first semester, such as some science, math, foreign language and Career and Technical Education (CTE) classes.

Process of removal:

- Collaboration between student, parent and teacher throughout the semester.
- Notice at least three weeks before the end of semester 1 that the student may fail and be removed from the course.
- Make alternative course choices within the first 5 days of the Second Semester with the Counselor. Students must choose an elective course and may not have an additional Study Hall.
- Students that fail courses required for graduation must recover the credit. Students will work with the Academic Coach to make an individualized plan for recovering the lost credits. See ["Credit Recovery"](#) for further information.

EDMENTUM COURSES ONLINE

CWHS utilizes an online curriculum called Edmentum to assist students with their [individualized Credit Recovery plans](#).

- Students may request to take courses through Edmentum in order to receive additional credits above and beyond their full course load. Requests will be reviewed by the Counselor and Principal.
- Students may **NOT** request to take courses through Edmentum in place of a course offered face-to-face with a CWHS teacher.

COLLEGE COURSES ONLINE

Students are allowed to take online college courses.

Every 2 online college courses = 1 period of class time given at CWHS

If a student takes 2 online college classes they may have 1 period of college class work time and one study hall period.

If a student takes more than 2 online college courses they will be given one period of CWHS time to work on every 2 online college courses without the option to add an additional study hall. The one exception to this rule involves seniors and SH/open campus. Those seniors who still have the option to earn open campus are still required to meet the 7 class period requirement.

If a student drops an online or face-to-face WIT course, they will be put on an Edmentum online course in the same subject area (if available). They will need to pass this Edmentum course before the end of the semester. If this course is not passed, the student will receive a WF on their transcript at the high school.

CWHS COURSES HIGHLY RECOMMENDED

for those pursuing a 4 year degree after high school
and prior to taking College/WIT courses

English	Math	Science	Social Studies	Language
College Prep Writing	Algebra II	Chemistry	Psychology	Spanish I
College Prep Literature	PreCalculus	Physics		Spanish II
		Any Advanced Biology Course		

COLLEGE ADMISSIONS REQUIREMENTS

Please check with the college/university that you are interested in attending for the up to date high school course requirements. Your counselor can help with this information as well.

[University of Iowa](#)

[University of South Dakota](#)

[Western Iowa Tech Community College](#)

[Iowa State University](#)

[South Dakota State University](#)

[Northwest Iowa Community College](#)

[University of Northern Iowa](#)

[University of Nebraska](#)

[Wayne State](#)

RAI Score for admission to any of the three Iowa Regent universities:

Iowa resident students who achieve at least a 245 RAI score and who meet the minimum high school course requirements are automatically offered admission to any of the three Regent universities.

Primary RAI Formula

Percentile rank X 1

+ ACT composite score X 2

+ Cumulative GPA X 20

+ Number of years of high school core courses X 5

RAI Score

RAI APPROVED CORE COURSES

[*Regents Admissions Index*](#)

ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	WORLD LANGUAGES
English I, II, III	Algebra I	Science 9	American Government	Spanish I
Contemporary Literature	Algebra 2	Biology	World History	Spanish II
Creative Writing	Geometry	Chemistry	Global Insight	Spanish III
College Prep Writing	Pre-Calculus	Human Anatomy & Physiology I and II	Modern American History	Spanish IV
Career & Technical Writing	Calculus	Physics	Psychology	
Oral Interpretation/ Acting	Calculus 1 (MAT 211)	AP Biology	Sociology	
Communications	Statistics (MAT 157)	Advanced Chemistry	Vietnam War in Depth	
Mythology	Transitional Math 1	Natural Resources & Ecology	World Wars	
Films as Literature	Transitional Math 2	Forensic Science		
College Prep Literature	Transitional Math 3	Oceanography		
	College Algebra (MAT 121)	College Biology (BIO 105)		
		CAPS Science Research Design		

NCAA / NAIA INFORMATION

Athletic ability is a specialty that can make a difference in the college admissions and financial aid process. At most colleges, athletics are regulated by the rules established by the NCAA (National College Athletic Association) or NAIA (National Association of Intercollegiate Athletics). The recruitment and enrollment of college athletes are governed by the NCAA's and NAIA's rules.

To be eligible to participate at the NCAA Division I or II level and NAIA, where full athletic scholarships are awarded students must be certified as eligible by the www.eligibilitycenter.org or <http://www.playnaia.org>.

Suggestions for student athletes:

- Inform your high school coach and counselor that you are interested in playing that sport in college.
- Register with the NCAA or NAIA Eligibility Center by the end of your junior year.
- Become familiar with the NCAA/NAIA rules regarding the recruitment of athletes.
- Make an appointment with your counselor to assure that you are taking courses approved from an approved core curriculum.

NCAA Eligibility Center Approved Courses				
English Language Arts	Social Sciences	Mathematics	Natural/Physical Sciences	Additional Core Classes
English I, II, III	American Government	Algebra I	Anatomy and Physiology I	Spanish I
College Prep Writing	Current Issues	Algebra II	Anatomy and Physiology II	Spanish II
Films as Literature	Economics	Algebra A (.5 units max)	Biology	Spanish III
Mythology	Intro to Psychology	Algebra B (.5 units max)	AP Biology	Spanish IV
College Prep Literature	Modern American History	Calculus	Chemistry	
	Sociology	Geometry	Advanced Chemistry	
	World History II	Pre-Calculus	Physics	
		College Calculus	Science 9	

[NCAA Eligibility Center Brochure](#)

CAREER PATHWAYS

Our goal at CWHs is to help you explore career possibilities, align them with your interests and skills, and start you on your individual path to success.

As a district, we align our career exploration program with the Future Ready Iowa initiative. That means we start with a broad view of career options and provide you with the tools and resources to go deeper as your interest grows.

All students are given the opportunity to create an Individual Career and Academic Plan (ICAP) and learn and grow with it throughout their four years of high school. ICAPs help students learn about themselves, explore careers that match their personality and skills, and figure out what path they need to take in order to join that career field.

IOWA CAREER PATHWAYS		
<u>Advanced Manufacturing</u> The use of innovative technologies and processes to improve the efficiency and quality of manufacturing.	<u>Agriculture, Food and Natural Resources</u> The scientific advancement of cultivation, processing, and distribution of agricultural products, employing advanced technologies and sustainable practices to optimize global food systems.	<u>Building Trades (Architecture, Construction, and Engineering)</u> The skilled professions and trades that are involved in the construction and finishing of buildings.
<u>Business and Financial Services</u> These careers can involve managing financial records, analyzing data, and providing advice to businesses and individuals	<u>Energy</u> Careers in the energy industry relate to extracting or harnessing power from a variety of sources, refining it and distributing it, and ensuring its safe use by consumers.	<u>Health Sciences</u> A health science pathway is a series of courses and work experiences that prepare students for health-related careers.
<u>Hospitality and Tourism</u> Managing, marketing, and operating businesses in the hospitality and tourism industry. This includes restaurants, hotels, attractions, and travel services.	<u>Information Technology (IT)</u> Implementing computer systems and software, providing technical assistance, and managing information systems.	<u>Transportation, Distribution and Logistics (TDL)</u> Planning, managing, and moving people, goods, and materials, including transportation, distribution, logistics, and supply chain management

Students are welcome to make appointments at any time with their Counselor to talk further about their Individual Career and Academic Plans (ICAPs).

CWSHS COURSE OFFERINGS

KEY ** Intervention courses (students can not choose to be in these classes) # required for graduation		~ WITCC Dual Enrollment Courses ^ Must have Instructor Approval	
Science	Advanced Chemistry (Fall only) AP Biology ** <i>Applied Biology</i> # Biology # Earth & Physical Science Chemistry Environmental Science Forensic Science ~Human Anatomy & Physiology I (Fall only) ~Human Anatomy & Physiology II (Spring only) ~Introductory Biology (College Bio) Natural Resources & Ecology Oceanography Physics Scientific Research & Design (Spring only)	Mathematics	Algebra I Algebra II ~Applied Math Calculus (Fall only) ~College Algebra Consumer Math (Fall only) Geometry Transitional Math I Transitional Math II Transitional Math III Occupational Applied Math ** Pre-Algebra Pre-Calculus ~Statistics (Fall only)
Art	Art Fundamentals Ceramics 1 and 2 Drawing Painting 1 and 2 Graphic Design ^ Senior Art Studio	Music	Band Introduction to Piano Marching Band Vocal Music (Choir)
Business	^Brave Designs - Business ^ CAPS ^ Extended Career Opportunities Introduction to Business ^ Work Based Learning	Physical Education	Health I Health II (Spring only) Physical Education Strength & Conditioning Outdoor Physical Education
Computer Science	Coding (Spring only) Introduction to Computer Science (Fall only) Robotics 3D Computer Design	Agriculture	Introduction to Agriculture Ag Business Ag Leadership Animal Science Plant Science Floriculture
English	Career and Technical Writing (Fall only) College Prep Literature College Prep Writing Communications (Spring only) Contemporary Literature Creative Writing (Spring only) # English 1 # English 2 # English 3 Films as Literature Mythology Oral Interpretation and Acting (Fall only) ^ Publications ** <i>Really Great Reading</i> ** <i>Strategic Reading</i>	Social Studies	Global Insights # Government History Through Films # Modern American History Psychology Sociology Vietnam War in Depth # World History World Wars
Family & Consumer Science	^ Brave Designs - FCS Culinary 1 Culinary 2 (Fall only) Fashion Design (Spring odd years) Housing Design (Spring even years) Human Growth (Spring even years) Interpersonal Relationships (Spring odd years) Introduction to FCS	World Language	Spanish I Spanish II Spanish III
Financial Literacy	Accounting I Accounting II Financial Planning ~Introduction to Accounting (Spring only)	Industrial Technology	^ Brave Designs- IT Drafting Introduction to Construction Woods I Woods II

COURSE DESCRIPTIONS

ENGLISH

Core Requirements

8 credits of English are required for graduation. Of those credits, English 1, English 2, and English 3 are required. The last two credits must be acquired with the student's choice of the **Electives**. One must be in the Language Focused category and one must be in the Literature focused category. Credits earned beyond the requirement are automatically counted as Electives.

English 1

Credits: 2

Yearlong Course

REQUIRED for Grade 9

Prerequisite: none

This is a required one-year English course that includes the coverage of skills such as reading literature, writing various genres, note taking strategies, grammar and structural language building skills, and vocabulary acquisition. Students will consider varying perspectives/ themes through a variety of literature and written work. Daily skill builders are required.

English 2

Credits: 2

Yearlong Course

REQUIRED for Grade 10

Prerequisite: English 1

In this required year long English class, students will encounter a variety of literature, writing, and film. Students study vocabulary as well as the following forms of literature: short stories, poetry, novels, non-fiction pieces, and plays. Students will also study and produce several forms of writing, including a short story, letters, and a research paper. Daily skill builders focus on proper language usage and writing.

English 3

Credits: 2

Yearlong Course

REQUIRED for Grade 11

Prerequisite: English 2

This course will focus on writing, speaking, and American Literature. Students will be writing in a variety of formats, essays, manuscripts, short stories, and poetry. Students will also be learning the art of effective rhetoric through formal and informal speeches. The literature will focus on the genres of poetry, plays, novels, essays, journals, speeches and short stories.

Literature Electives

Mythology

Credits: 1

Semester Course

Open to grades 10 - 12

Prerequisite: None

Myths are traditional stories that have endured over a long time. This course will focus on the myths of ancient Greece as a way of exploring the nature of myth and the function it plays for individuals, societies, and nations. We will also pay some attention to the way the Greeks themselves understood their own myths. This course will investigate myths through a variety of topics, including the creation of the universe, the relationship between gods and mortals, human nature, the family, love, madness, and death.

Contemporary Lit

Credits: 1

Semester Course

Open to grades 9 - 12

Prerequisite: None

Students will read contemporary or modern novels, poetry, and short stories that address social justice issues and that are written after 1945. This class will address the features of modern literature and expose students to cultures and perspectives from around the world. This class will be assessed through reflective writing practice and through class discussions.

Films as Lit

Credits: 1

Semester Course

Open to grades 10 - 12

Prerequisite: None

Films as Literature is a one-semester course: This course is a course designed to examine a film as a piece of literature, and for its cinematic qualities. Students will study various film genres. This class has strong emphasis on 21st century critical thinking skills. Students will be expected to write, film, edit, and produce their own short films. This course will teach students how to use the editing tool in iMovie. Other film projects that will be produced include a PSA, Music Video, etc.

College Prep Lit

Credits: 1

Semester Course

Open to grades 9 - 12

Prerequisite: none

This is a course designed to help students prepare for college literature. Students will be exposed to various literature such as narrative poetry and prose, dramas, and novels. Students will learn skills that will help them read and write about complex text in a fun-filled and supportive environment. Students will be doing ACT prep work. This course will be useful in preparing you for college or online college courses. This course is offered in both the first and second semesters. The semesters are not

	identical, so a student could take the course all year for 2 credits or they could take the course in the first or second semester for 1 credit.
Language Electives	
Creative Writing Credits: 1 Semester Course Open to grades 9 - 12 Prerequisite: None	Students in this course will generate free writing in a journal, study models of good writing, and experiment with poetry, various genres, and prose. Students will develop a sense of speaker and audience. Students will provide positive support for their fellow writers and learn to revise their work using concrete, sensory details and appropriate choice of diction, syntax, purpose, and audience.
Oral Interpretation & Acting Credits: 1 Semester Course (Fall) Open to grades 9 - 12 Prerequisite: None	This course is designed to help the student feel more comfortable speaking in a variety of public settings. This course will cover improvisation, lip sync participation, mime, script writing and delivery, and combat mime. Activities will include class and public performances. You must participate in order to earn a passing grade.
College Prep. Writing Credits: 1 Semester Course Open to grades 9 - 12 Prerequisite: None	This class is a writing course, which is designed to prepare students to write for a variety of reasons and prepare them for college writing. Topics of essays include: persuasive, argumentative, literary analysis, research, informative, analysis of a visual narrative, a generic scholarship essay, personal narrative, and career readiness documents. Students will also have exposure to several forms of citations, grammar, and vocabulary exercises. This course will be useful in preparing you for college or online college courses.
Publications Credits: 2 Yearlong Course Open to grades 11 - 12 Prerequisite: Teacher approval	Students will produce the school yearbook. There will be an emphasis on writing style and technique, writing process (revising, and editing), and also production values, organization and deadlines. The students will focus on their writing skills, editing stories, headlines, captions and the basics of production design, layout and printing of a publication. Students will work with several types of technology (digital cameras and photo editing software). Students will also have to work together with other students in the course to make major decisions about the yearbook. Students are also expected to take pictures at school events, outside of class time, and work at 2 concession stands. Students signing up for this class must be enrolled for both semesters.
Career & Technical Writing Credits: 1 Semester Course Open to grades 9- 12 Prerequisite: None	This course will teach students to communicate in a clear, courteous, concise, complete and correct manner on both personal and professional levels. Competency will be developed in oral, written, interpersonal, technological, and employment communication. Listening skills will be incorporated throughout the semester. Students will survey basic concepts of non-fiction writing and encounter various article formats while working towards developing their voice with various writing styles. This course will prepare students to research, organize, and write persuasively.
Communications Credits: 1 Semester Course (Spring) Open to grades 9 - 12 Prerequisite: None	This is a course designed to help students enhance their communicative skills. This course will help students learn interview skills, media skills, and delivering speeches. A variety of projects in the class will include: creating commercials, radio broadcasting/podcast, spontaneous speaking, advertising, and demonstrative speaking.

MATHEMATICS

6 credits of Math are required for graduation.

Credits earned beyond the requirement are automatically counted as Electives.

General Math Track 1

Transitional Math 1

Credits: 2

Yearlong Course

Open to grades 9 - 12

Prerequisite: none

This is an integrated course of algebra and geometry. Algebra topics include: equations, inequalities, linear functions, and solving systems of linear equations. Geometry topics include basics of geometry, parallel and perpendicular lines and transformations.

Transitional Math 2

Credits: 2

Yearlong Course

Open to grades 10 - 12

Prerequisite: Transitional Math 1

This is a continuation from Integrated Math I, including algebra and geometry. Algebra Topics include Lines of Fit, Arithmetic and Geometric Sequences, Piecewise Functions, Exponential Functions, Polynomials, Factoring, Data Analysis and Displays. Geometry topics Congruent triangles, Relationships with Triangles, Quadratics and Other Polynomials, and Similarity.

There are other options for year 3 of Math in this track. Please discuss these options with your math teachers.

Transitional Math 3

Credits: 2

Yearlong Course

Open to grades 10 - 12

Prerequisite: Transitional Math 2

This is a continuation from Integrated Math II, including topics from algebra and geometry. Algebra topics include Factoring, Solving Quadratic Equations and Solving Radical Functions and Equations. Geometry topics include Probability, Right Triangles and Trigonometry, and Circumference, Area and Volumes.

General Math Track 2

Algebra 1

Credits: 2

Yearlong Course

Open to grades 9 - 12

Prerequisite: none

Algebra, in addition to its concern of solving mathematical problems, supplies the language and patterns of reasoning used in other branches of mathematics. Besides increasing their ability to organize and solve mathematical problems, most students will be able to solve and think through their own problems better. Topics include Equations, Inequalities, Linear Function, Systems of Equations and Inequalities, Exponents, Polynomials, Factoring Polynomials, and Quadratic functions and equations.

Geometry

Credits: 2

Yearlong Course

Open to grades 9 - 12

Prerequisite: Algebra 1

This is an elective math course intended to follow Algebra I. The course is a study of the process of logical thought. Logical thought consists of reaching valid conclusions based on facts special to the given problem as well as previously established facts. The skills learned in the logical pattern of problem solving can be applied to everyday decision-making and problem analysis, as well as to other math and science courses. Topics covered include proof, geometric figures and their properties and relationships, and the algebra of geometry, including review of algebra skills pertinent to this and future math courses.

Algebra 2

Credits: 2

Yearlong Course

Open to grades 10 - 12

Prerequisite: Algebra 1 and Geometry

Algebra II is a course intended to follow Algebra I and Geometry. It builds heavily upon skills and concepts from Algebra I. The course emphasizes properties of the real number system, operations with algebraic expressions, functions, graphing, mathematical modeling of problems, problem solving, and communicating mathematics. Extensive work is done with linear functions, quadratic functions, rational expressions, and rational functions, the relationships between functions and

	their graphs, and solving systems of equations. The real number system is extended to include operations with complex numbers.
Electives	
Applied Math WITCC MAT 772 Credits: 1 Semester (Spring) Open to grades 11 - 12 Prerequisite: Algebra 1	This course reinforces general mathematics skills; extend these skills to include some pre-algebra, and algebra topics; and use these skills in a variety of practical, consumer, business, and occupational applications. Course topics typically include rational numbers measurements, basic statistics, ratio and proportion, basic geometry, formulas, and simple equations.
Consumer Math Credits: 1 Semester Course (Fall) Open to grades 12 Prerequisite: 2 full years of Math	This course familiarizes the student with basic arithmetic operations (particularly percent) and then, using these operations, deals with some of the problems that everyone encounters in daily life. Some of these include: earned income, interest and interest rates, savings and checking accounts, budgets, installment buying, automobile ownership and operation, insurance (fire, life, automobile, health, and accident), taxes (real estate, sales, income, 1040EZ form), investments, social security, and reading graphs and tables. This is not a college prep course.
Pre-Calculus Credits: 2 Yearlong Course Open to grades 11 - 12 Prerequisite: Algebra 2	This course combines the study of Trigonometry, Elementary Function, & Math Analysis topics as preparation for Calculus. Topics include the study of complex numbers; polynomial, logarithmic, exponential, rotational, trigonometric, & circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solution of right and oblique triangles; vectors, sequences, & series.
Calculus Credits: 1 Semester Course (Fall) Open to grades 12 Prerequisite: Pre-calculus and qualifying score on ALEKS or ACT exam.	This is an elective math course intended to follow Algebra 2. The course is a study of the process of logical thought. Logical thought consists of reaching valid conclusions based on facts special to the given problem as well as previously established facts. The skills learned in the logical pattern of problem solving can be applied to everyday decision-making and problem analysis, as well as to other math and science courses. Topics covered include proof, geometric figures and their properties and relationships, and the algebra of geometry, including review of algebra skills pertinent to this and future math courses.
College Calculus WITCC MAT 211 Credits: 1 Semester (Spring) Open to grades 11 - 12 Prerequisite: Pre-calculus, Calculus and ACT Math subscore of 26 or higher, or a 65 cut score on the ALEKS test.	This is the fifth year of the college prep mathematics sequence, following Pre-Calculus. The course will include a review of the properties of the real number system; a review of trigonometry and circular functions; logarithms and exponential functions; and most of the Advanced Placement Calculus AB syllabus. Students will receive both high school and college credit for this dual credit course.
College Algebra WITCC MAT 121 Credits: 1 Semester (Spring) Open to grades 11-12 Prerequisite: ACT Math subscore of 21 or higher, or a 32 cut score on the ALEKS test.	This course addresses linear functions and inequalities, quadratics, conics, polynomials and rational functions, exponential and logarithmic functions, linear systems, matrices and determinants. Additional topics may include sequences, series, permutations, combinations, and probability. Completion of Pre-requisite course or alternative assessment required for enrollment.
Statistics WITCC MAT 157 Credits: 1 Semester (Fall)	This course addresses theory, techniques, and applications of statistical analyses: descriptive statistics, probability, sampling, estimation, test of hypotheses, ANOVA, linear regression and nonparametric procedures. Computer skills and use is needed

Open to grades 11 - 12 Prerequisite: ACT Math subscore of 22 or higher, or a 33 cut score on the ALEKS test.	throughout the course. This is a dual credit College NOW class worth 4 college credits.
Occupational Applied Math Credits: 4 (2 CTE + 2 Math) Yearlong course (2 periods) Open to grades 11-12, limit 12 Prerequisite: Woods 1 & 2 Co-requisite: Introduction to Construction	This course will reinforce general mathematics skills, extend these skills to include some pre-algebra and algebra topics, and use these skills primarily in occupational applications. While these courses prepare students for a variety of occupational applications, they are not intended to serve as remedial mathematics courses. Course topics typically include rational numbers, measurement, basic statistics, ratio and proportion, basic geometry, formulas, and simple equations.

SCIENCE

Core Requirements

6 credits of Science are required for graduation. Of those credits, Earth & Physical Science and Biology are required. The last two credits must be acquired with the student's choice of the **Electives**.

Earth & Physical Science Credits: 2 Yearlong Course REQUIRED for Grade 9 Prerequisite: none	This physical science course presents an introduction to earth science, astronomy, chemistry and physics using a hands-on conceptual learning approach. Topics will include the meaning of science, measurement, scientific investigation, matter, atomic structure, chemical bonds, chemical reactions, motion, forces, energy, and engineering through space and Earth sciences. Students work in cooperative learning groups doing both the lab and lecture, and research components.
Biology Credits: 2 Yearlong Course REQUIRED for Grade 10 Prerequisite: Earth & Physical Science	Biology is the study of living things. Topics studied include: scientific method, basic biochemistry, molecular and cellular biology, ecology, genetics and biotechnology, evolution, and a survey of the plant and animal kingdoms.

Electives

Advanced Chemistry Credits: 1 Semester Course (Fall) Open to Grades 12 Prerequisite: 2 Credits of Chemistry	This college preparatory course is designed for students with a continuing interest in chemistry. Its purpose is to expand the student's knowledge of the areas of chemistry touched on in the first year course and also to consider new topics that time limitations prevented in first year chemistry, such as electro-chemistry, nuclear chemistry, organic chemistry, and qualitative analysis. Future college science majors should take this class. <i>Calculator is required.</i>
Advanced Placement Biology Credits: 2 Yearlong Course Open to Grade 12 Prerequisite: Biology (Chemistry recommended)	This college preparatory course is designed for students with a continuing interest in biology. It is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their freshman year. Approximately 25% of the class will focus on molecules and cells – emphasizing the chemistry of life, cell cycles, cellular respiration, and photosynthesis. Approximately 25% of the class will focus on genetics and evolution – emphasizing inheritance patterns, cellular genetics, and evolutionary patterns. The final 50% of the class will focus on a survey of the plant and animal kingdoms along with ecological relationships. Recommended for students planning to attend college and/or pursue a career in science. ALL students WILL be required to take the Advanced Placement test at the end of the class.

Anatomy & Physiology 1 WITCC BIO 168 Credits: 1 Semester Course (Fall) Open to Grades 11 - 12 Prerequisite: (To the right) Co-Requirement: BIO 174	This is a combined lecture and lab course that explores the relationship between structure and function in the human body. This course covers the skeletal, muscular, integumentary, and nervous systems, as well as cytology and histology. This course is for high school and college credit (4 college credits through Western Iowa Tech Community College). Prerequisite: 1) Score 22 or higher on ACT OR 2) 2 semesters of High School Chemistry with a B- or better or 1 semester of High School Chemistry with a B- or better OR 3) Completion with a C- or better in College Biology (Bio 105)
Chemistry Credits: 12 Yearlong course Open to Grades 11 - 12 Prerequisite: Biology	Chemistry is a college preparatory physical science that deals with the composition and structure of matter and the chemical changes that take place. Some of the areas to be studied will include: The atom and the theory of its structure, the molecule, compounds, including acids, bases and salts, chemical bonding, classification of the elements, chemical reactions including the energy of reactions, gas laws, and the mathematics of chemistry. Recommended for students planning to attend college. <i>Calculator is required.</i>
Forensic Science Credits: 1 Semester Course (Spring) Open to Grades 11 - 12 Prerequisite: Biology	Forensic Science is the application of science to the criminal and civil laws that are enforced by police agencies in a criminal justice system. It includes the investigation of fingerprinting, fiber analysis, arson, trace evidence analysis, poisons, drugs, blood spatters, and blood samples. Students are taught the proper collection, preservation, and laboratory analysis of various samples.
Introductory Biology (College Biology) WITCC BIO 105 Credits: 1 Semester Course Open to Grades 11 - 12 Prerequisite: Earth & Physical Science and Biology	This is a dual-credit combined lecture and lab course that is a survey of biological concepts for non-science college majors. Topics covered include biochemistry, molecular and cellular biology, genetics, evolution, plant and animal classification, and ecology.
Environmental Science Credits: 1 Semester Course (Spring) Open to Grades 10 - 12 Prerequisite: Earth & Physical Science	Students can expect hands-on student-led projects looking at energy and natural resources, natural disasters, and consumer influence. We will examine the causes, effects, and possible solutions between humans and their ever-changing interaction with the environment. We will explore local, state, national, and global issues relating to the environment using field-collected data and current events.
Natural Resources & Ecology Credits: 2 Yearlong Course Open to Grades 9 - 12 Prerequisite: none	Students will explore hands-on projects and activities while studying topics such as land use, water quality, stewardship, and environmental agendas. Study of the natural world including biomes, land, air, water, energy use, and care. Students will select an ecosystem to study throughout the course and apply principles of natural resources and ecology from each unit of study to that ecosystem.
Oceanography Credits: 1 Semester Course (Fall) Open to Grades 11 - 12 Prerequisite: Biology	Oceanography is the study of the physical, chemical, biological, and geologic aspects of the world's oceans and their interactions. The course also focuses on ocean exploration/history, ocean policies with regards to fishing, pollution, and the environment, and why the study of oceanography is important to you.

Physics Credits: 2 Yearlong Course Open to Grades 11 - 12 Prerequisite: Geometry and 4 credits of Science	Physics is a college preparatory course that deals primarily with the non-living aspects of nature. Here are some areas which will be studied: measurements- buoyancy - force - motion - energy in the form of heat, light, and electricity. Recommended for students pursuing a career in science or math. <i>Calculator is required.</i>
Scientific Research & Design (CAPS) Credits: 1 Semester Course (Spring) Open to Grades 11 - 12 Prerequisite: none	Students conceive of, design, and complete projects using scientific inquiry and experimentation methodologies. Emphasis is typically placed on safety issues, research protocols, controlling or manipulating variables, data analysis, and a coherent display of the project and its outcomes. This is NOT a math-based engineering class. The emphasis is on hands-on learning and project building.

SOCIAL STUDIES

Core Requirements

6 credits of Social Studies are required for graduation. Of those, Modern American History, World History, and Government are 5 of the required credits. The last credit can be acquired with the student's choice of the **Electives** classes.

Credits earned beyond the requirement are automatically counted as Electives.

Modern American History Credits: 2 Yearlong Course REQUIRED for Grade 9 Prerequisite: none	This year-long course focuses on American History beginning with the Industrial Revolution through the early 2000's. We focus on building our ability to find information through research, as well as how to actually analyze and interpret that information on a basic level. Utilizing beginning historical skills throughout the year helps them develop allowing them to build these useful life skills, particularly in the 21st century.
World History Credits: 2 Yearlong Course REQUIRED for Grade 10 Prerequisite: none	This year-long class examines world history dating from ancient Greece to modern times. World history is a comprehensive curriculum on the human past. It is distinct from curricula that emphasize a sequence of regions and civilizations. The world history curriculum emphasizes skills in historical thinking, a chronological approach to the human past, multiple scales of social activity, interactions among groups of people and social processes, and the identification of multiple perspectives on the past. The curriculum explores social change, cultural interaction, and economic and political development. It presents an orderly exploration of multiple spheres of history and scientific inquiry. At the same time the curriculum addresses conflict as well as cooperation in the past, and explores debate as well as consensus.
Government Credits: 1 Semester Course REQUIRED for Grade 12 Prerequisite: none	This semester-long course is designed to help students learn about American Government and help them learn about how to be capable and well-informed citizens as they prepare to finish high school and move on to the next stage of their lives. We cover the history of the development of government as a society, the origins of our nation's government, Constitutional Law, individual rights, political research, and developing political opinions and ideology. We will additionally go on two field trips during the semester, one to the Cherokee County Courthouse where we will get a direct picture of the functions of our local government, and one to the State of Iowa Capitol building in Des Moines where we will learn about the functions of our State government, learn some of Iowa's governmental history, and possibly get to meet some of our state government officials such as Senators, Representatives, and/or our Governor/Lt. Governor (depending on the scheduling availability of these individuals).

	We will also complete a project where students will run their own campaign, putting into practice the things we learned through the semester.
Electives	
Global Insights Credits: 1 Semester Course Open to grades 9 - 12 Prerequisite: none	Global Insights is a class that will examine many of the issues and events around the world. The course will explore a variety of ways to express oneself in debate, writing, and research assignments. Students will need to come prepared with an open mind and be interested in learning more about what is happening in the world around them.
History Through Films Credits: 1 Semester Course Open to grades 10 - 12 Prerequisite: none	History Through Films is a semester-long class where students will watch historical films, each dedicated to an event, person, or era of history. Students will use the films to better understand the historical facts and impact of each event/person/era. Each film will also challenge the students to use critical thinking skills about how each movie subject made an impact on society/the world. Students will also use what they learned in each movie to justify any actions they would take if they were in similar situations that they see in each movie.
Psychology Credits: 1 Semester Course Open to grades 11 - 12 Prerequisite: none	This course offers a deep dive into Erick Erickson's theory on psychosocial development. Throughout the semester, students will learn about the eight stages of life. Throughout each stage, we will analyze how development (physical, cognitive, social, etc.) and other factors (stress, death, etc.) impact individuals and shape who we become.
Sociology Credits: 1 Semester Course Open to grades 11 - 12 Prerequisite: none	A survey of the fundamental concepts employed in the study of human social interaction with emphasis on group aspects of social behavior. Subject areas include research methods, culture and social structure, socialization, groups and formal organizations, deviance and social control, stratification, minorities, major social institutions, and social change.
Vietnam War in Depth Credits: 1 Semester Course Open to grades 10 - 12 Prerequisite: none	This course will examine the history of the Vietnam War. It will provide the student with the historical background that set the stage for the conflict, the events that led directly to the war, the major issues involved at home and abroad, and an overview of the major battles. Further, this course will also cover the non-military aspects of the war, such as the changing political climate in the United States during the late 1960s, that had a profound impact on the outcome of the struggle. We will also look at how the impact of this war is still felt today, in the United States and throughout the world.
World Wars Credits: 1 Semester Course Open to grades 10 - 12 Prerequisite: none	World War I and II are among the most interesting topics of the 20th century. What brought Europe to the First World War? How did its ending lead to World War II? How did the Nazis rise up in Germany? What really happened during World War II? The Holocaust? These questions and more will be answered throughout the duration of this course. If you are ready to learn more about and participate in an in-depth analysis of the World Wars, this is the course for you.

PHYSICAL HEALTH & WELLNESS

4 credits of Physical Education are required for graduation. This does not mean 4 credits total, it means 1 credit per academic year. Health 1 and CPR training are also required. Credits earned beyond the requirement are automatically counted as Electives. Students in grades (9-12) may be allowed to have physical education waived if it is due to a class conflict or if they fill out a waiver if they are involved in other physical activities. Seniors have the option of having one semester waived without Board approval.

Health 1 Credits: 1	The health units covered will include nutrition, goal setting, fitness, the body systems, drug and alcohol abuse, sex education and CPR Training. This introductory class will
--------------------------------------	--

Semester Course REQUIRED for Grade 9 - 12 Prerequisite: none	cover the health basics in the above areas with a focus on units important to early teens.
Health 2 Credits: 1 Semester Course (Spring) Open to Grades 10 - 12 Prerequisite: Health 1	This class will teach the overall benefits of staying healthy. Health units that will be covered include nutrition, personal fitness, and changes of the body, body systems, mental and emotional health, drug use and abuse, sex education, and other current applicable health topics. <i>*Course offering dependent upon enrollment numbers</i>
Physical Education Credits: 0.5 or 1 Semester Course Open to grades 9 - 12 Prerequisite: none	Physical Education classes are designed to practice and develop skills in activities that will help students maintain fitness throughout their life. Students will understand the benefits that regular exercise can provide for a person's mental, physical, and social health. This is a class that combines traditional P.E. units with an introduction to lifting.
Outdoor Physical Education Credits: 2 Semester Course/2 Periods Open to grades 11 - 12 Prerequisite: at least one credit of Physical Education as well as instructor approval	This is an elective physical education course that will emphasize various outdoor activities, enhance fitness levels, develop an appreciation for the outdoors, acquire leadership skills and understand the importance of physical activity as it relates to a healthy lifestyle. Participants in this class realize there are certain risks involved in our activities and agree to follow all class safety rules and regulations. Activities and projects may include but are not limited to the following: Golf, kayaking, court sports, archery, fishing, biking, swimming, hiking, horse riding and disc golf. This is an elective class and participation is MANDATORY! Safety equipment, worn correctly, is also MANDATORY!
Strength & Conditioning Credits: 1 Semester Course Open to grades 9 - 12 Prerequisite: Instructor approval	This course will give students the tools and resources needed to be physically fit and healthy for a lifetime. The variety of exercises, techniques and equipment used will allow students to experience many different ways to exercise which will likely lead to them finding exercises they enjoy and want to continue performing after completing the course. Students will also learn how to create their own Health and Fitness plans that work towards specific health, fitness and career goals.
Coaching Ethics, Techniques, and Theory WITCC PEC 110 Credits: 0.5 Semester Course (Fall) Open to grades 11 - 12 Prerequisite: none Co-Requisite: PEC 115	This course studies the theory and techniques of coaching the interscholastic athlete and the interscholastic team, as well as the related responsibilities, duties and problems. This is one of four courses leading to the coaching authorization issued by the Iowa Department of Education as a head coach or assistant coach of any interscholastic athletic activity. <i>*Course offering dependent upon enrollment numbers</i>
Athletic Development and Human Growth WITCC PEC 115 Credits: 0.5 Semester Course (Fall) Open to grades 11 - 12 Prerequisite: none Co-Requisite: PEC 110	This course introduces concepts in sports psychology for elementary school age children and adolescents. Physical, psychological and social growth is examined as they relate to physical activity and competitive athletics. This is one of four courses leading to the coaching authorization issued by the Iowa Department of Education as a head coach or assistant coach of any interscholastic athletic activity. <i>*Course offering dependent upon enrollment numbers</i>
Body Structure and Function WITCC PEC 120 Credits: 0.5 Semester Course (Spring) Open to grades 11 - 12	This course is an introduction to the physiological processes and anatomical features of the human body which are related to and affected by physical activity and training. This is one of four courses leading to the coaching authorization issued by the Iowa Department of Education as a head coach or assistant coach of any interscholastic athletic activity.

Prerequisite: none Co-Requisite: PEC 126	<i>*Course offering dependent upon enrollment numbers</i>
Athletic Injury and Prevention WITCC PEC 126 Credits: 0.5 Semester Course (Spring) Open to grades 11 - 12 Prerequisite: none Co-Requisite: PEC 120	This course introduces conditioning programs and training methods that tend to prevent athletic injuries. This course provides basic skills in injury procedures, while providing practical experience in taping techniques. This is one of four courses leading to the coaching authorization issued by the Iowa Department of Education as a head coach or assistant coach of any interscholastic athletic activity. <i>*Course offering dependent upon enrollment numbers</i>

WORLD LANGUAGE

Credits earned for Spanish classes will be counted as Electives.

Spanish 1 Credits: 2 Yearlong Course Open to grades 9 - 12 Prerequisite: none	This is an elective course that teaches the basic structures of the Spanish language. The students learn foundational skills to read, write, listen, and speak Spanish as well as learn important cultural points throughout the year. The emphasis is on using Spanish in everyday situations. This course is not designed for the native speaker.
Spanish 2 Credits: 2 Yearlong Course Open to Grades 10 - 12 Prerequisite: Spanish 1	Spanish II is a continuation of first year Spanish with added emphasis on formal grammar, conversational skills, writing, listening, presentations and cultural information. Text and workbook activities are included. This course is not designed for the native speaker.
Spanish 3 Credits: 2 Yearlong Course Open to Grades 11 - 12 Prerequisite: Spanish 1 & 2	This course is a continuation of Spanish II, which emphasizes building skills in reading, writing, listening, and speaking. Cultural points are also a part of each unit. This class is conducted primarily in Spanish.
Spanish 4 Credits: 2 Yearlong Course Open to Grade 12 Prerequisite: Spanish 1, 2 & 3	This course is a continuation of Spanish III, which emphasizes building skills in reading, writing, listening, and speaking. Cultural points are also a part of each unit. This class is conducted primarily in Spanish.

CAREER & TECHNICAL EDUCATION

Financial Planning is required for graduation and will be taken in grade 12.

Credits earned in this category are automatically counted as Electives.

Agriculture

Intro to Agriculture Credits: 1 Yearlong Course	Students' experiences will involve the study of communication, FFA, SAE, agriculture, scientific process, natural resources. This course is structured to enable all students to have a variety of experiences that will provide an overview of the fields of agriculture
--	---

Open to Grades: 9-12 Prerequisite: none	science and natural resources so that students may continue through a sequence of courses through high school. In addition, students will understand specific connections between lessons and supervised agricultural experiences and FFA components that are important for the development of an informed agricultural education student.
Animal Science Credits: 1 Semester Course Prerequisite:	Students' experiences will involve the study of animal anatomy, physiology, behavior, nutrition, reproduction, health, selection, and marketing. Throughout this course students will consider the perceptions and preferences of individuals within local, regional, and world markets. Students will explore hands-on projects, activities to learn the characteristics of animal science and work on major projects and problems similar to those that animal science specialists, such as veterinarians, zoologists, livestock products, and industry personnel, face in their respective careers.
Plant Science Credits: 1 Semester Course Open to Grades: 10-12 Prerequisite: Intro. to Ag.	Student experiences will include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. Students will learn how to apply scientific knowledge and skills to use plants effectively for agricultural and horticultural production. Students will discover the value of plant production and its impact on the individual, the local, and the global economy. Students will work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers, and plant research specialists, face in their respective careers.
Ag Business Credits: 1 Semester Course Open to Grades: 10-12 Prerequisite: Intro. to Ag.	This course introduces the fundamental concepts of agriculture business within the framework of how the agriculture industry operates and functions in a global economy. It focuses on the basic principles of the issues and concepts that agricultural businesses and markets encounter.
Ag Leadership Credits: 2 Yearlong Course Open to Grades: 10-12 Prerequisite: Intro. to Ag.	Agriculture Leadership courses help students develop leadership skills with a focus on opportunities in the food, fiber, and natural resources industries. Topics may include but are not limited to human relationships and effective communication, decision making and problem-solving, leadership qualities and styles, and ensuring successful completion of group activities.
Floriculture Credits: 1 Semester Course Open to Grades: 9-12 Prerequisite: none	If you like to design floral arrangements and grow plants this class is for you! Floriculture involves studying the biology of flowering plants, the cultivation practices that help flowers grow, and the ways in which flowers are used in the commercial, aesthetic, and decorative industries. Students will learn about plant propagation, pest management, and the sustainable practices involved in flower production. The course may also delve into the business side of floriculture, such as marketing, floral design, and retail aspects. This class is VERY hands on class!
Horticulture Credits: 1 Semester Course Open to Grades: 9-12 Prerequisite: none	This course provides students with a comprehensive understanding of the principles and practices involved in managing a greenhouse environment. Topics include greenhouse design and construction, climate control, plant growth factors, pest and disease management, irrigation systems, and crop production. Students will gain hands-on experience in managing greenhouse operations, from seedling propagation to harvesting, and will develop the skills needed to optimize plant health and yield in a controlled environment.
Business & Finance	
Introduction to Business (400) Credits: 1 Semester Course	This semester course should give a solid basis for those students considering further studies in business in high school and college as well as offering useful and practical aspects of living to any students. It gives background information on the free

Open to Grades 9 - 12 Prerequisite: none	enterprise system in the three possible roles a student plays: as a worker, as a consumer and as a citizen in the economy.
Accounting 1 Credits: 2 Yearlong Course Open to Grades 10 - 12 Prerequisite: none	The main purpose of the course is to give the student a background in accounting methods used in a sole proprietorship business and a corporation, as well as a background to be used in further college or career & technical education courses. Calculating taxes and completing bank reconciliation are also a part of this course. A workbook is used for the problems that are assigned to simulate real world experience. Practice sets for a proprietorship and a corporation are used to further enhance the learning process. Students will also be exposed to automated accounting using computer software.
Accounting 2 Credits: 1 Semester Course (Fall) Open to Grades 11 - 12 Prerequisite: Accounting 1	This course is designed to provide additional knowledge of accounting procedures not covered in the accounting first year course. Areas of study include: a review of basic accounting procedures for a partnership and a corporation, accrued income and expenses, and unearned revenue and prepaid expenses. Students will use a ruled workbook and business simulations to enhance the learning experience. Accounting II students will also be exposed to an automated accounting program on the computer. (This class is a must for those entering Accounting Programs at the college level.)
College Accounting WITCC ACC 111 Credits: 1 Semester Course (Spring) Open to Grades 11 - 12 Prerequisite: Accounting 1	This course is designed to teach the key concepts and skills required to record a variety of accounting entries for both a service and merchandising business, to prepare financial statements, to record payroll entries, to prepare payroll records and to utilize good cash management skills. These skills learned will prepare students for direct job entry as small business owners and entrepreneurs. These accounting concepts are applied to a variety of companies.
Business Law Credits: 1 Semester Course Open to Grades 10 - 12 Prerequisite: None	In the business curriculum, business law is perhaps the one content-type course that is of value to all students whether or not they specialize in business. Business law is fundamental for social control and knowledge of it is essential to intelligent action in everyday living. It deals in many areas. Some of the units are as follows: laws, contract, insurance, motor vehicles, juvenile law and property law.
Financial Planning Credits: 1 Semester Course REQUIRED for grade 12 Prerequisite: none	This course is designed to introduce and help students develop the skills and strategies that are helpful in becoming more productive individuals. Topics include goal setting; personal management, budgeting, saving, and investing.
Computer Science	
Intro to Computer Science Credits: 1 Semester Course (Fall) Open to grades 9 - 12 Prerequisite: none	Introduction to Computer Science introduces students to computers and peripheral devices, the functions and uses of computers, the language used in the computer industry, applications of computers, and occupations related to computer hardware and software. This course will explore legal and ethical issues associated with computer use, as well as how computers influence modern society. Students will also perform some computer operations.
Coding Credits: 1 Semester Course (Spring) Open to grades 9 - 12 Prerequisite: Algebra 1 or Transitional Math 2	Coding is a class that introduces students to the foundational concepts of computer programming. Coding explores the technical challenges and questions that arise from the need to represent digital information in computers and transfer it between people and computational devices. The majority of the class introduces the foundational concepts of computer programming, which unlocks the ability to make rich, interactive apps.

Computer Applications Credits: 1 Semester Course Open to grades 9 - 12 Prerequisite: none	Computer Applications provides an introduction to software applications that prepares students to succeed in the workplace and beyond. Students will develop an understanding of professional communications and leadership skills while gaining proficiency with word processing, email, and presentation management software.
3D Computer Design Credits: 1 Semester Course Open to grades 9 - 12, limit 10 students Prerequisite: Art Fundamentals	This Independent Study course, conducted with instructors as mentors, enables students to explore topics of interest related to the Virtual Reality Education Pathfinder program. This course may serve as an opportunity for students to expand their expertise with the Blender software, to explore 3D animation in greater detail, or to develop more advanced skills related to the program. 2 nd Semester is contingent on teacher's approval.
Robotics Credits: 1 Semester Course Open to grades 9 - 12 Prerequisite: Coding or Teaching Permission	Robotics develops students' skills and knowledge so that they can design and develop robotic devices. Topics covered in the course may include mechanics, electrical and motor controls, computer basics, and programmable logic controllers.
Family and Consumer Science	
Introduction to FCS Credits: 1 Semester Course Open to grades 9 - 12 Prerequisite: none	This course focuses on helping students explore the many different topics found within the family and consumer sciences. Topics include (but are not limited to) Basic Finance Management, Personal Relationships, Culinary Skills, Basic Nutrition, and careers in the family and consumer sciences.
Culinary 1 Credits: 1 Semester Course Open to grades 9 - 12 Prerequisite: Intro to FCS with 70% or higher	<p>This course will help students build an understanding of the fundamentals of foods and nutrition. Students will learn about the various food groups and types of food. A major emphasis will be placed on food safety and sanitation. Students will have multiple opportunities to apply knowledge in the kitchen lab. Students will have the opportunity to earn their ServeSafe Food Handler Certification.</p> <p><i>*Juniors/Seniors may test out of Intro to FCS if they want to take this course. Please see Mrs. Puettmann before the semester begins to discuss this option.</i></p>
Culinary 2 Credits: 1 Semester Course (Fall) Open to grades 10 - 12 Prerequisite: Culinary 1 with 70% or higher	This course is a continuation of Culinary 1. Students will explore topics such as food preservation, protein sources and preparation, vegetables and foreign food with an emphasis on cooking to taste and food preparation in the lab setting.
Human Growth & Development Credits: 2 Yearlong Course (Even years) Open to grades 10 - 12 Prerequisite: Intro to FCS with 70% or higher	<p>This course will focus on the development and growth of the human from conception and infancy to the elderly stage and death. A special focus will be placed on ages 0-18 and students may have the opportunity to use the RealCare Baby® Simulation.</p> <p><i>*Juniors/Seniors may test out of Intro to FCS if they want to take this course. Please see Mrs. Puettmann before the semester begins to discuss this option.</i></p>
Housing Design Credits: 1 Semester Course (Spring even years) Open to grades 9 - 12 Prerequisite: Intro to FCS	This course is designed to help students explore the many different aspects of housing and interior design. Topics will include the elements and principles of design; traffic patterns and flow; affordability in housing; and the creation of floor plans. This class will be primarily project based and students will have the opportunity to design their own housing utilizing technology.

with 70% or higher	<i>*Juniors/Seniors may test out of Intro to FCS if they want to take this course. Please see Mrs. Puettmann before the semester begins to discuss this option.</i>
Interpersonal Relationships Credits: 1 Semester Course (Spring odd years) Open to grades 11 - 12 Prerequisite: Intro to FCS with 70% or higher	<p>This course was designed to help students understand the importance of creating healthy relationships. Students will explore the functions of various relationships, mental health, intimate relationships and personal health, abusive relationships and more!</p> <p><i>*Juniors/Seniors may test out of Intro to FCS if they want to take this course. Please see Mrs. Puettmann before the semester begins to discuss this option.</i></p>
Fashion Design Credits: 1 Semester Course (Spring odd years) Open to grades 11 - 12 Prerequisite: Intro to FCS with 70% or higher	<p>This course is designed to help students foster creativity as they explore the many different aspects of the textiles and apparel industry. Topics will include the production and manufacturing of textiles, the dyeing and printing processes, clothing design with hands-on applications, and retail. A special focus will be directed at the debate surrounding fast fashion.</p> <p><i>*Juniors/Seniors may test out of Intro to FCS if they want to take this course. Please see Mrs. Puettmann before the semester begins to discuss this option.</i></p>
Industrial Arts	
Introduction to Construction Credits: 4 (2 CTE + 2 Math) Yearlong Course (2 periods) Open to grades 11-12, limit 12 Prerequisite: Woods 1 and 2 Co-requisite: Occupational Applied Math	<p>This course is designed to acquaint students with the safe handling of construction materials, machines and hand tools. The students will cover topics including safe use of tools, measurements, building footprints, wall and roof construction. Lab work will depend on availability of construction projects.</p>
Woods 1 Credits: 1 Semester Course Open to grades 9 - 12, limit 14 Prerequisite: none	<p>This introductory course is designed to acquaint students with the safe handling of wood, machines and hand tools. The students will cover topics including safety, measurement, cutting wood and wood joints, adhesives, wood properties, finishing techniques, and project planning. There are two required projects and a personal project chosen by the student.</p>
Woods 2 Credits: 2 Yearlong Course Open to grades 10 - 12, limit 14 Prerequisite: Woods 1	<p>This advanced course is an independent projects class for students to explore the various categories of wood in the production of furniture or cabinets. The students will demonstrate safe shop practices while producing projects. Drawings, plan of procedure, and bill of materials will be made for each project.</p>
Metal Working Credits: 1 Semester Course Open to grades 9 - 12, limit 6 Prerequisite: none	<p>This introductory course is designed to acquaint students with the safe handling of metals, with machines and hand tools. The students will cover topics including safety, measurement and layout, and the fundamentals of the different welding processes.</p>
Drafting Credits: 1 Semester Course (Spring) Open to grades 9 - 12, limit 10 Prerequisite: none	<p>This introductory course is designed to acquaint students with the printed language of industry. The students will cover topics including ANSI lettering, tools, constructions, shape description and size description. Additional units will cover sketching, pictorials (oblique-isometric-perspective), sectioning, stretch-outs, and auxiliary views. Students will use Chief Architect, CAD, SolidWorks, Blender, and 3D Printing.</p>

Brave Designs

Brave Designs is a unique course offered at WHS in which students collaborate across three different CTE subcategories: business, FCS and industrial arts. Students can choose to participate in projects in one of the business focus areas (graphic design, industrial technology, or business management) to gain hands-on knowledge of the workplace and inner-workings of a business.

Students applying for Brave Designs must have completed one of the following classes:

Intro to FCS	Accounting	Woods I
---------------------	-------------------	----------------

Students must complete an application to be evaluated by the instructors, principal and school counselor.

[Click here for the current application.](#)

Brave Designs - FCS

Credits: 2

Yearlong Course

Open to grades 10 - 12

Prerequisite: Intro to FCS with 70% or higher

Students will work with various technologies to design and create graphic apparel, stickers and other vinyl products to be listed for sale.

This class will be limited to 6 students.

Brave Designs - Business

Credits: 2

Yearlong Course

Open to grades 10 - 12

Prerequisite: Accounting I recommended

Students will work to market, sell, inventory and do business accounting for items sold.

This class will be limited to 8 students.

Brave Designs - IT

Credits: 2

Yearlong Course

Open to grades 10 - 12

Prerequisite: at least one Industrial Art class

Students will work with various technologies to design and create wooden and/or metal products to be listed for sale.

This class will be limited to 12 students.

Work-Based Learning

Students must complete an application to be evaluated by the Work-Based Learning Coordinator.

[Work-Based Learning Student Application](#)

Work-Based Learning

Credits: 1 or 2

Open to grades 11 - 12

Prerequisite: Approved application and courses completed that are related to the job placement

Work-based learning opportunities are available in various businesses in the Cherokee community. Work-based learning links the school's academic and occupational course of study with supervised on the job training. The experiences are relevant to the student's identified career goal. Work-based learning students are released from school one or two class periods per day for their paid or non-paid job. All jobs must be assigned and approved by the work-based learning coordinator. Students must fill out an application and go through an interview with the work-based learning coordinator, a guidance counselor, and/or the principal. Placement will depend upon application, interview, student grades, attendance and job availability.

Extended Career Opportunities Credits: 3 or 4 Open to grades 11 - 12 <u>Prerequisite:</u> Work-Based Learning	ECO opportunities are available in various businesses in the Cherokee community. Eco experiences allow for a more indepth learning experience and will follow the same guidelines as work-based learning. Placement will depend upon application, interview, student grades, attendance and job availability.
---	---

FINE ARTS

Credits earned are automatically counted as Electives.

Art

Art Fundamentals Credits: 1 Semester Course Open to grades 9 - 12 <u>Prerequisite:</u> none	This course is designed to introduce students to art at the high school level. Students will explore a variety of projects to connect them to their creativity; through building art vocabulary, techniques and cognitive abilities. A passing grade in this course is required to take any other art courses.
Art Fundamentals II Credits: 1 Semester Course Open to grades 9 - 12 <u>Prerequisite:</u> Art Fundamentals	This course is designed to build art vocabulary and apply it on an everyday basis. Students will apply their knowledge of elements and principles of art, art history and aesthetics by creating art projects using a variety of techniques in painting, drawing, printmaking, sculpture, and other forms of fine art. The course is a studio type class. The focus of the course is experimenting with different art media. Students will try a variety of art techniques and materials to find what they like the most.
Drawing Credits: 1 Semester Course Open to grades 9 - 12 <u>Prerequisite:</u> Art Fundamentals	In this course students will explore a variety of methods and media used in drawing.
Graphic Design Credits: 1 Semester Course (Spring) Open to grades 10 - 12, limit 10 students <u>Prerequisite:</u> Art Fundamentals	This course is designed to explore the principles of design using software in the Adobe Suite, with focus on Photoshop and Illustrator. Project topics will vary, but may include: logo creation, web-based graphic design, sticker creation, commercial art, and branding and marketing design.
Painting 1 Credits: 1 Semester Course Open to grades 9 - 12 <u>Prerequisite:</u> Art Fundamentals	This course will allow students to explore the world through paint. Various tools and techniques used in painting will be explored. Students will create an understanding for aesthetics, composition, and painting techniques through a number of projects aimed at creating a personal connection to painting.
Painting 2 Credits: 1 Semester Course Open to grades 9 - 12 <u>Prerequisite:</u> Painting 1	This course will continue an exploration of technique and personal style and artistic ideas through paint. An emphasis in style, personal critiques and presenting their art will be expected.

Ceramics 1 Credits: 1 Semester Course (Fall) Open to grades 9 - 12 Prerequisite: Art Fundamentals	This course will allow the student to discover art through clay. Students will create an understanding of form and function through a variety of projects and techniques. Students will learn how to use a potter's wheel and hand-building skills.
Ceramics 2 Credits: 1 Semester Course (Spring) Open to grades 9 - 12 Prerequisite: Ceramics 1	Ceramics II provides in-depth work with clay beyond Ceramics I. Students will further their technical ability in hand building, surface decoration and wheel thrown techniques. Students will continue to explore glaze application methods and various surface effects. Students will be highly encouraged to work beyond the ordinary in order to advance their artistic styles and capabilities with clay.
Senior Art Studio Credits: 1 Semester Course Open to grade 12 Prerequisite: Art Fundamentals, Drawing, Painting and Teacher Approval	This course is designed to allow the individual to pursue media or mediums of choice. Students should be strong independent thinkers and workers. The goal is to create personal, meaningful and individualized artwork. Course is designed for serious art students.
Sculpture Credits: 1 Semester Course Open to grade 12 Prerequisite: Art Fundamentals, Drawing, Painting and Teacher Approval	This course provides students an opportunity to explore art through sculpture. Students will apply their knowledge of form, content, and technique by creating sculptures using a variety of techniques, such as modeling, carving, casting, and more. The course is a studio type class. The focus of the course is experimenting with a variety of sculpture techniques, and building an understanding of 3D aesthetics.
Animation Credits: 1 Semester Course Open to grades 9 - 12 Prerequisite: Art Fundamentals	This course is designed to explore the techniques, design principles, and processes of animation. Students will apply their knowledge of movement, design, visual storytelling, and technique through the creation of animated videos. Students will explore a variety of animation styles and techniques.
Band	
Band Credits: 2 Yearlong Course Open to grades 9 - 12 Prerequisite: none	<p>This course is open to all students with a desire to participate in Instrumental Music. The major focus in Band is the Concert Band where students will be introduced to concepts that will improve music technique. Students involved in Band are required to participate in Marching Band and Pep Band during athletic events. They will also be required to participate in concerts and other performances throughout the year and will have the opportunity to participate in select ensembles. Weekly lessons are required and are scheduled by the director. Any student enrolled in Band is open to audition for jazz band, honor bands, and All-State.</p> <p>Marching Band (August - October) Marching Band is a Co-requisite of Band. Students will attend Band Camp in August, as well as class times beginning at 7:30 am each day. This course is designed to provide an enriching and diverse instrumental and visual music education. This class will include a number of public performances in a variety of settings. The daily objective of the course is to foster and promote musical growth through instrumental playing and visual choreography.</p>
Choir & Piano	

<p>Choir Credits: 2 Yearlong Course Open to grades 9 - 12 Prerequisite: none</p>	<p>This ensemble is open for any student with a reasonable degree of vocal ability and/or training in proper vocal technique. Students will be introduced to concepts that will improve sight-reading ability and overall music technique. Music for this ensemble will be sacred and secular, covering time periods from the Renaissance to contemporary in a variety of languages. Lessons are mandatory and will be scheduled by the director. Any student enrolled in this ensemble will be required to participate in concerts and other performances throughout the semester and will also have the opportunity to participate in select ensembles. Any student enrolled in Vocal Music is open to audition for Jazz Choir.</p>
<p>Intro to Piano 1 Credits: 1 Semester Course Open to grades 9 - 12 Prerequisite: none</p>	<p>Students will be taught the following: Fundamentals of piano, music and musicianship, music notation, musical terminology, scales, key signatures, time signatures, and performance etiquette. In addition, students will be taught basic piano chords, rhythms, and fingering techniques. The music played is beginner-level classical, folk, swing, blues, and popular piano literature.</p>
<p>Intro to Piano 2 Credits: 1 Semester Course Open to grades 9 - 12 Prerequisite: Intro to Piano 1 (or instructor approval, based on previous piano experience)</p>	<p>Students will review the following: Fundamentals of piano, music and musicianship, music notation, musical terminology, scales, key signatures, time signatures, performance etiquette, basic piano chords, rhythms, and fingering techniques.</p> <p>Students will continue their learning from Intro to Piano I by learning the rest of the major scales and several minor scales, develop further technical skill with fingering exercises and techniques, expand their understanding of chord structures and lead sheet notation, and explore more deeply their preferred area of interest in music while playing songs in a variety of other genres as well. Students will also learn the basics of music composition and create miniature compositions of their own.</p> <p>The music played includes late beginner to intermediate-level Baroque, Classical, and Romantic music; folk, swing, blues, and other forms of jazz; music from video games and movies; as well as piano literature from pop, R&B, country, and other popular modern genres.</p>

CONCURRENT ENROLLMENT COURSES

The following contracted courses through concurrent enrollment are available to all 9-12 grade students that demonstrate proficiency in all content areas of the ISASP. CTE courses are exempt from the proficiency requirement.

- Concurrent enrollment courses will follow WITCC grading guidelines as these are college classes.
- WITCC has implemented a 21 credit hour limit per academic year for CWHS students.
- Please note: WITCC dual-enrollment (face-to-face) class offerings are dependent upon the number of students enrolled.
- This list is not exhaustive. For full course offerings from WITCC, please refer to their [Course Search Website](#).
- Courses taught at CWHS are noted with *

Common General Education courses if you plan on attending a 2 or 4 year university.

ENG 105	Composition I
ENG 106	Composition II
SPC 112	Public Speaking
COM 723	Workplace Communications
HIS 110	Western Civ: Ancient to Early Modern
HIS 111	Western Civ: Early Modern to Present
PSY 111	Introduction to Psychology
SOC 110	Introduction to Sociology

Popular Career Specific courses

ACC 111	Introduction to Accounting *
AGA 114	Principles of Agronomy

AGS 113	Survey of the Animal Industry
AUT 104	Introduction to Automotive Technology FALL
AUT 163	Auto Engine Repair SPRING
BIO 105	Introductory Biology *
BIO 168	Anatomy & Physiology I *
BIO 173	Anatomy & Physiology II *
CRJ 100	Introduction to Criminal Justice*
CRJ 101	Ethics in Criminal Justice*
ELE 101	Industrial Safety FALL
FLS 141	Elementary Spanish 1
FLS 142	Elementary Spanish 2
FLS 231	Intermediate Spanish 1
FLS 232	Intermediate Spanish 2
HSC 109	Exploring Health Careers and Building Teams
HSC 114	Medical Terminology
HSC 173	Nurses Aide Theory
MAT 157	Statistics *
MAT 211	Calculus *
MAT 772	Applied Math *
MAT 121	College Algebra *
MUS 100	Music Appreciation
MUS 115	Music Theory I

MUS 125	Ear Training/Sight Singing
PEC 110	Coaching Ethics, Techniques, and Theory*
PEC 115	Athletic Development and Human Growth *
PEC 120	Body Structure and Function *
PEC 126	Athletic Injury Prevention *
WEL 120	OXY Fuel Welding & Cutting SPRING
WEL 147	ARC Welding Introduction SPRING
WEL 423	Introduction to Gas Metal Arc Welding (GMAW) FALL
WEL 422	GMAW For Production FALL
WEL 425	Measuring, Layout & Applied SPRING

CREDIT RECOVERY & ALTERNATIVE PROGRAMS

Traditional schooling format isn't a good fit for all students. If a student is falling behind in credit requirements, school staff may ask to meet with the student and parent(s) in order to discuss alternative credit options.

We currently offer two different paths for students to meet the needs of nontraditional learners:

Online-Based Credit Recovery	Alternative School
A student highly at risk for failing a small number of classes will be brought in after being in in-person classes for at least 3 weeks to discuss the option of credit recovery online. Students using this opportunity to get back on track will still	The CHWS Alternative School addresses the needs of students who are unable to adjust or function in the traditional school setting. Alternative School utilizes an individualized, independent study approach with a less formalized structure. Attendance and productivity greatly influence progress, and

take a full semester course load, and also work on recovery credits in a monitored study hall setting. If a student is withdrawn from a course for any reason, they will be placed in credit recovery online in order to stay productive during that scheduled class period.

Expectations for students in the Credit Recovery Program:

1. Students must report to the Fast Track Credit Recovery room every day for each period they are assigned. Attendance will be taken the same as any other class in the high school.
2. Progress will be monitored at least 2-3 times each week.
3. Students are expected to make gains within the online course each week.
4. Mid-Term grades and progress will be discussed with the principal, parents and student. A printed report will be mailed home as well.
5. If a student does not pass the online Credit Recovery course by the end date listed below they will be required to complete summer school to earn credit for this course.

the participant controls each factor. Students will learn they are responsible for their own success. This builds self-esteem as well as a sense of accomplishment.

Admission Policy-

A Cherokee Washington High School counselor and administrator must refer students interested in attending the Washington High School Learning Center.

Those students who reside within the district who are not currently enrolled at CWSHS must apply at Washington High School.

Those students who currently reside outside the Cherokee Community School District must complete one of the following options:

1. Move into the district.
2. Open-enroll into the Cherokee Community School District. (Note: there are timelines established by the State of Iowa regarding Open Enrollment. Please check with your home district regarding this option.)
3. Pay tuition.

Admission Requirements-

1. Recognize the need for an education
2. Have the desire to complete the requirements for graduation.
3. Complete interview process with Principal, School Counselor, and WHSLC Instructor. (2/3 must be present).
4. Complete the written application
5. Agree, in writing, to comply with the policies and procedures of the Cherokee Washington Alternative High School