

Waverly High School Curriculum



2024-2025

Freshmen Course Description Book

WHS Career & Technical Education

Agriculture

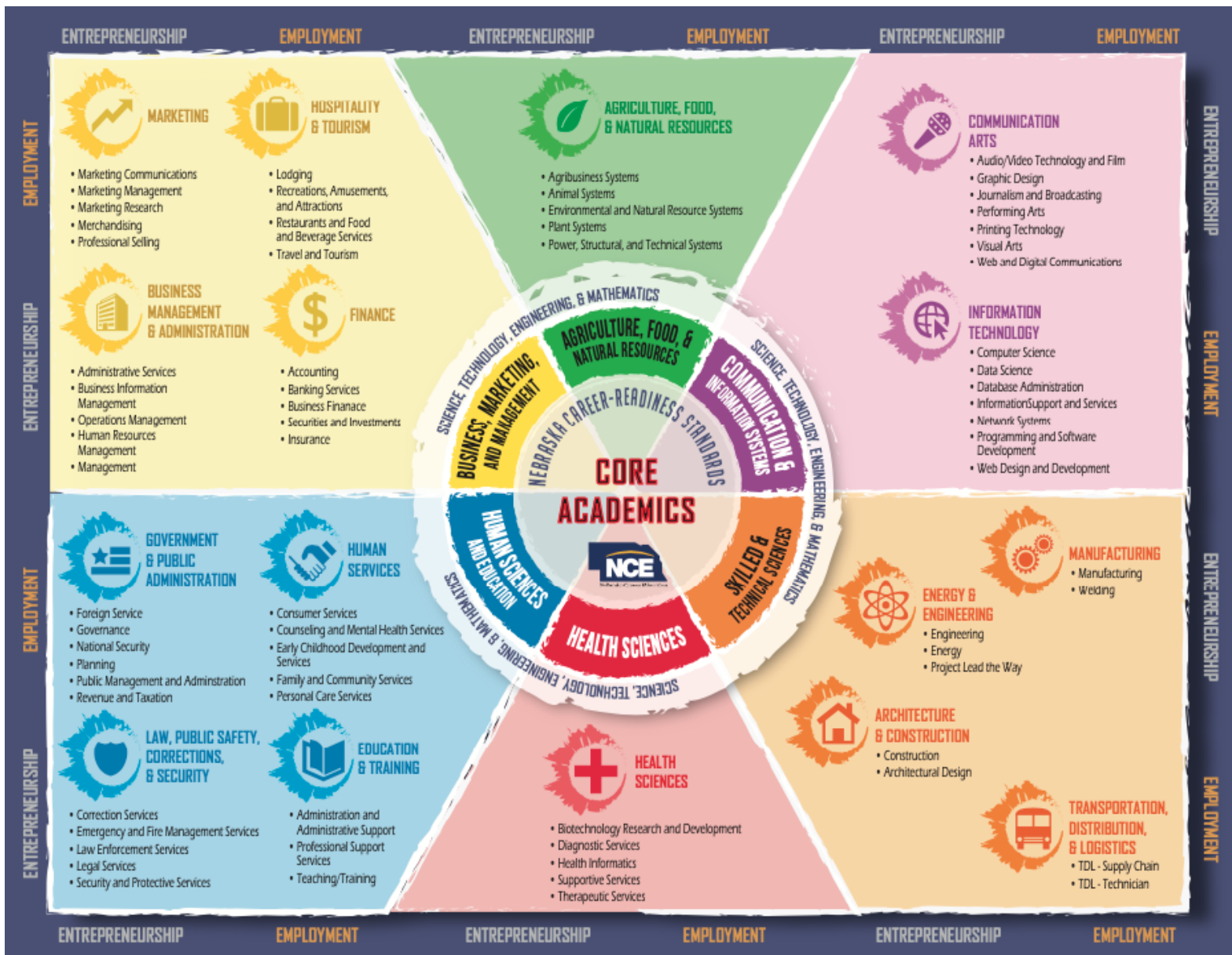
Business & Information Technology

Family & Consumer Sciences

Skilled & Technical Sciences

Communications & Fine & Performing Arts

****Although not CTSO's, these areas provide career-related opportunities****



Above is the Nebraska Career Model. Please explore the courses offered at Waverly High School on the following pages. The courses within each career field will provide you with the skills and experiences necessary to prepare you for related college majors and careers.

Agriculture, Food, & Natural Resources

	Career Possibilities:	Recommended WHS high school classes:	
Animal Science	Animal Nutritionist Pharmaceutical or Feed Sales Meat Processor Feedlot or Confinement Manager Veterinarian	<u>Agriculture</u> Intro to Ag OR Biology Animal Science Veterinary Science Large Animal Management Companion Animals <u>Family & Consumer Sciences</u> Medical Terminology (Vet Science only)	<u>Business</u> Intro to Business Entrepreneurship
Plant Science	Greenhouse Manager Agronomist Seed or Fertilizer Sales Florist Landscape Design	<u>Agriculture</u> Intro to Ag OR Biology Plant Science Landscape Design Floriculture <u>Skilled & Technical Sciences</u> Residential Design <u>Fine Arts</u> Art Exploration (Any)	<u>Business</u> Intro to Business Entrepreneurship <u>Family & Consumer Sciences:</u> Interior Design Skills Advanced Interior Design Skills
Agribusiness	Agricultural Loan Officer Agricultural Sales Grain Merchandiser Insurance Agent Marketing Manager Stock Market Broker	<u>Agriculture</u> Intro to Ag Agribusiness Ag Sales and Marketing	<u>Business</u> Intro to Business Entrepreneurship Micro/Macro Economics Business/Personal Law
Natural Resources	Conservation Officer Soil or Water Scientist Wildlife Biologist Environmental Lawyer	<u>Agriculture</u> Intro to Ag Natural Resources Wildlife Management <u>Skilled & Technical Sciences</u> Construction Technology	<u>Business</u> Intro to Business Entrepreneurship Micro/Macro Economics
Power & Structural Systems	Machine Operator Welder Agriculture Engineer Gas or Diesel Mechanic	<u>Agriculture</u> Intro to Ag Welding <u>Skilled & Technical Sciences</u> Essential Tech Skills Intro to Engineering Design	<u>Business</u> Intro to Business Entrepreneurship <u>Southeast Community College</u> Welding Academy
Food Science	Food Scientist Flavor Chemist Food Product Developer Food Safety Inspector Sensory Evaluator	<u>Agriculture</u> Animal Science Large Animal Management Plant Science <u>Family & Consumer Sciences</u> Nutrition & Food Culinary Skills	<u>Business</u> Intro to Business Entrepreneurship

Only students enrolled in agricultural courses are eligible for FFA membership

Introduction to Agriculture, Food & Natural Resources

Course Length: One semester
Grade Level: 9, 10
Prerequisite: None
Course Credit: 5 credits

This curriculum emphasizes the major components of the agricultural, food, fiber, & natural resources systems. This course will prepare students to make informed decisions of the program of study in which they are interested. This course will allow students to experience seven agricultural pathways: Agribusiness, Animal, Plant, Natural Resources, Environmental, Food Processing, and Power, Structural, & Mechanical Systems through hands-on laboratory experiences. It will introduce students to the Agricultural Education Model of Classroom/Lab Instruction, Supervised Agricultural Experiences, and FFA. **Highlighted in the course are several FFA events including Public Speaking, Animal Evaluation, Food Science, Parliamentary Procedure, Natural Resources, and many others.**

Natural Resources

Course Length: One semester
Grade Level: 9, 10, 11, 12
Prerequisite: None
Course Credit: 5 credits

Curriculum emphasizes basic scientific principles involved in conserving and/or improving natural resources such as air, water, land, forestry, wildlife, and energy. Students will gain an understanding of alternative energy, important natural resources in Nebraska, and basic wildlife management. **This course will also highlight the FFA Natural Resources, Land Evaluation, and Envirothon events.**

Plant Science

Course Length: One semester
Grade Level: 9, 10, 11, 12
Prerequisite: None
Course Credit: 5 credits

This course applies scientific principles to the management of plants. Topics covered include structure and function of plants, including requirements for growth, methods of propagation, plant anatomy, nutrition, and the management of pests and diseases. Identification and selection of plants along with their use and functions and physiological processes are also stressed. Students will gain hands-on experience in the plant science industry. **This course will highlight the FFA Nursery and Landscape, Land Evaluation, Floriculture, and Agronomy events.**

Animal Science

Course Length: One semester
Grade Level: 9, 10, 11, 12
Prerequisite: None
Course Credit: 5 credits

This course is designed to help students develop a foundational understanding of biological principles of animal production which will influence and affect management decisions. Students will gain a basic understanding of animal anatomy, physiology, nutrition, health, and animal welfare. **This course will also highlight the FFA Meat Science, Livestock Management, Veterinary Science, and Livestock Selection Events.**

Companion Animals

Course Length: One semester
Grade Level: 9, 10, 11, 12
Prerequisite: Animal Science recommended
Course Credit: 5 credits

This is a course to help students demonstrate a basic understanding of the care of small animals, while also understanding the biological principles of small animals which will influence and affect management decisions. Students will study companion animals including cats, dogs, rabbits, rodents, other small mammals, birds, fish, reptiles, & other companion animals. **This course will highlight the FFA Veterinary Science Event and prepare students for responsible pet ownership.**

Floriculture

Course Length: One semester
Grade Level: 9, 10, 11, 12
Prerequisite: None
Course Credit: 5 credits
Cost: \$25 fee

This course will provide students with the necessary background to become employed or continue education in the floral industry. In addition, this class will help students develop skills in the design and construction of floral arrangements, along with providing background knowledge of the industry. **This course will highlight the FFA Floriculture Event.**

Business, Management and Marketing

	Career Possibilities:	Recommended WHS high school classes:	
Marketing	Fashion Marketer Commercial Director Sports Agent iTunes Podcast Promoter Anything video games	<u>Business</u> Entrepreneurship Intro to Business Digital Media Business Law <u>Math</u> Pre-College Math	<u>Agriculture</u> Agribusiness <u>Family & Consumer Sciences</u> Interior Design Skills Advanced Interior Design Skills Fashion Design Skills Advanced Fashion Design Skills
Hospitality & Tourism	Amusement & Recreation Attendant Concierge Cruise Ship Director Curator Gaming Dealers	<u>Business</u> Entrepreneurship Digital Media Intro to Business Accounting 1 Accounting 2	<u>Family & Consumer Sciences</u> Nutrition & Food Culinary Skills
Business Management & Administration	IT Project Manager Actuaries Advertising & Promotion Manager General & Operations Manager Lawyer	<u>Business</u> Entrepreneurship Business Law Personal Finance Intro to Business Accounting 1 Accounting 2	<u>Agriculture</u> Agribusiness <u>Math</u> Pre-College Math
Finance	Financial Analyst Accountant Economist Treasurer Personal Financial Advisor	<u>Business</u> Personal Finance Entrepreneurship Digital Media Intro to Business Micro/Macro Economics Accounting 1 Accounting 2 <u>Agriculture</u> Agribusiness	<u>Family & Consumer Sciences</u> Child Development Relationships & Family Strengths Interior Design Skills Culinary Skills

Communications & Information Systems

	Career Possibilities:	Recommended WHS high school classes:	
Information Technology	Communications Analyst	<u>Business</u> Foundations of Computing Digital Media Computer Science	
	Network Engineer		
	Database Administrator		
	Programmer		
	Computer Engineer		
	Software		
Arts, A/V Technology, & Communications	Web Page Design	<u>Business</u> Entrepreneurship Intro to Business	<u>Family & Consumer Sciences</u> Interior Design Skills Advanced Interior Design Skills Fashion Design Skills Advanced Fashion Design Skills
	Desktop Publishing		
	Fashion or Interior Design	<u>Communications</u> Viking Yearbook 1 Viking Yearbook 2 Advanced Publications Digital Media	<u>Performing Arts</u> Theatre All Art Courses
	Performing Artists (Actor, singer, dancer, director, choreographer, vocal coach, teacher, etc)		
	Theatrical Production Member (hair/makeup/costume design & construction; set designer/builder/painter; light/sound designer; management; etc))		
	Journalist (print, broadcasting, digital, radio, podcast, etc)		
	Producer		
	Telecommunications		

Introduction to Business

Course Length: One semester
Grade Level: 9, 10
Prerequisite: None
Course Credit: 5 credits

This survey course is designed to introduce the student to the principles and functions of business. Business will be studied as part of a total social, political and economic environment. The various functional areas of business will be discussed; economics, forms of business ownership, small business, entrepreneurship, management, human relations, marketing, accounting, finance, stock market and business law. Emphasis will be placed on hands-on activities, web-based activities, and real-life application.

Digital Media

Course Length: One or two semesters
Grade Level: 9, 10, 11, 12
Prerequisite: None
Course Credit: 5 credits or 10 credits

Students will create, design, and produce digital media including: sound, video, graphics, text, and animation. Emphasis will be placed on effective use of tools for interactive multimedia production including: storyboarding, visual development, project management, and web processes. Students in this course will also have duties and assignments related to school activities beyond the classroom and normal school hours.

Advanced Publications

Course Length: Two semesters
Grade Level: 9, 10, 11, 12
Prerequisite: An application may be required
Course Credit: 10 credits

Broadcast journalism will focus on the implementation of Striv TV at Waverly High School. Students will learn to use equipment – setting up and tearing down – as well as the facets of broadcasting live events. Striv U zoom sessions will be used to help teach students how to use wirecast, adobe, slack and photoshop. Students will be trained on proper interviewing techniques as well as how to broadcast a live sporting event. Podcasting and using social media platforms such as X, Instagram and Snapchat will be used to tell the stories of the many successful activities and students at Waverly High School.

Viking Yearbook 1

Course Length: Two semesters
Grade Level: 9, 10, 11, 12
Prerequisite: An application/teacher recommendation may be required
Course Credit: 10 credits

For students who have not previously taken a yearbook class. Students will learn the basic skills required to create and publish a yearbook. These skills include, but are not limited to: interviewing, newswriting, advertising, design, and photography. Students will follow all expectations as listed in "Viking Yearbook 2." Yearbook 1 & 2 may be combined based on enrollment.

Human Services & Education

	Career Possibilities:	Recommended WHS high school classes:	
Human Services	Counseling Social Worker Non-Profit Family Services Dietitian Community Services	<u>Family & Consumer Sciences</u> Nutrition & Food Culinary Skills Advanced Culinary Skills Child Development Advanced Child Development Practicum Relationships & Family Strengths Interior Design Skills Advanced Interior Design Skills Fashion Design Skills Advanced Fashion Design Skills	<u>Business</u> Entrepreneurship Business Law <u>Social Studies</u> Psychology
Education & Training	Teacher (early childhood, elementary, middle school, high school, post secondary, special education) Administrator Speech Pathologist Guidance Counselor	<u>Family & Consumer Sciences</u> Child Development Advanced Child Development Practicum Relationships & Family Strengths Teaching as a Profession Best Practices in Education	<u>Social Studies</u> Psychology
Law, Public Safety, Corrections, & Security	Corrections Officer Case Manager Police Officer Lawyer Security Director	<u>Family & Consumer Sciences</u> Child Development Relationships & Family Strengths <u>Business</u> Business Law Personal Finance Micro/Macro Economics	<u>Social Studies</u> Psychology Constitution and Citizenship
Government & Public Administration	Lobbyist Senator National Security Intelligence Analyst Public & Foreign Affairs Auditor	<u>Family & Consumer Sciences</u> Relationships & Family Strengths <u>Business</u> Business Law Personal Finance Micro/Macro Economics	<u>Social Studies</u> Psychology Constitution and Citizenship

Nutrition and Food

Course Length:	One semester
Grade Level:	9, 10, 11, 12
Prerequisite:	None
Course Credit:	5 credits
Cost:	\$20 fee (covers cost of food you produce and consume in the food labs)

In this semester-long course, students will develop the base foundation knowledge of food selection and preparation needed to successfully fuel the human body through consumption of food and resulting food energy. With a beginning foundation of nutrition, students will learn basic preparation skills and the short-term and long-term wellness consequences as a result of nutritional intake, and exposure to careers related to the food industry. Students will leave the class being able to plan, produce, and communicate the importance behind healthy meals & habits to a specified target audience.

Fashion Design Skills

Course Length:	One semester
Grade Level:	9, 10, 11, 12
Prerequisite:	None
Course Credit:	5 credits
Cost:	Student is responsible for the purchase of supplies needed for this course.

This course is a personalized course for individuals interested in fashion and clothing construction. All students will apply the principles of design to hands-on projects meeting the needs of various populations and scenarios through design planning and presentation. Students who are interested in fashion and construction will cover: Basics of Textile and Apparel Design, Selection/Construction/Maintenance/ and Alterations of Textile Products, and Related Careers. It is recommended to enroll in Advanced Fashion Design Skills and Entrepreneurship to advance the skills learned in this course.

Interior Design Skills

Course Length:	One semester
Grade Level:	9, 10, 11, 12
Prerequisite:	None
Course Credit:	5 credits
Cost:	\$10 consumable fee. Student is responsible for the purchase of additional supplies needed for this course.

This course is a personalized course for individuals interested in designing homes and interiors. All students will apply the principles & elements of design to hands-on projects meeting the needs of various populations and scenarios through design planning and presentation. Students who are interested in designing homes and interiors will cover: Housing Influences & Choices, Basics of Housing & Interior Design, & Related Careers. It is recommended to enroll in Advanced Interior Design Skills and Entrepreneurship to advance the skills learned from this course.

Advanced Fashion Design Skills

Course Length:	One semester
Grade Level:	9, 10, 11, 12
Prerequisite:	Fashion Design Skills
Course Credit:	5 credits, may re-enroll in this course multiple times.
Cost:	Student is responsible for the purchase of supplies needed for this course.

This course is designed to concentrate and advance your skills, studies, and experiences for fashion and construction after completing the Fashion Design Skills course. Students will work with the teacher to set individual learning plans for advanced levels. If this course matches your talents, passions, and interests, it is also recommended to re-enroll in the Advanced Fashion Design Skills course and enroll in Entrepreneurship.

Advanced Interior Design Skills

Course Length:	One semester
Grade Level:	9, 10, 11, 12
Prerequisite:	Interior Design Skills
Course Credit:	5 credits
Cost:	\$10 consumable fee. Student is responsible for the purchase of additional supplies needed for this course.

This course is designed to concentrate and advance your skills, studies, and experiences for homes and interiors after completing the Interior Design Skills course. Students will work with the teacher to set individual learning plans for advanced levels.

Health Sciences

	Career Possibilities:	Recommended WHS high school classes:	
Health Sciences	Nurse	<u>Family & Consumer Sciences</u> Intro to Health Sciences	<u>Agriculture</u> Veterinary Science
	Therapist	Medical Terminology	
	Physician	Nutrition & Food	<u>Business</u> Entrepreneurship
	Surgeon	Child Development	Accounting
	Dentist	<u>Science</u> Anatomy	
	Dietician	<u>Social Studies</u> Psychology	<u>Southeast Community College</u> Health Science Academy
	Lab Scientist		
	Health Care Manager		

Intro to Health Sciences

Course Length: One semester
Grade Level: 9, 10, 11, 12
Prerequisite: None
Course Credit: 5 credits

This course is designed to give an overview of the health science career fields including therapeutic, diagnostic, support services, biotechnology & research and health informatics pathways. The course focuses on health careers, exploration, leadership development, basic medical terminology, ethical and legal responsibilities, the history & economics of health care, diseases and disorders, positive and negative health and wellness behaviors, and first aid. Skills learned will be applicable to students continuing in the medical science field.

Skilled & Technical Sciences

	Career Possibilities:	Recommended WHS high school classes:	
Architecture & Construction	Architect	<u>Skilled & Technical Science</u> Essential Technical Skills Residential Design Furniture Design Construction Technology Introduction to Building Construction	<u>Agriculture</u> Landscape Design
	Computer Aided Drafter		<u>Family & Consumer Sciences</u> Interior Design Skills Advanced Interior Design Skills
	Carpenter	<u>Business</u> Entrepreneurship Personal Finance	<u>Math</u> Geometry Algebra
	General Contractor		<u>Science</u> Biology Physics
	Equipment Operator	<u>Social Studies</u> Psychology United States History	<u>Fine Arts</u> Art Exploration (any)
	Demolition Engineer		
Manufacturing	Design Engineer	<u>Skilled & Technical Science</u> Essential Technical Skills Intro to Engineering Design Furniture Design Construction Technology Welding Introduction to Building Construction	<u>Agriculture</u> Welding
	Industrial Engineer		<u>Family & Consumer Sciences</u> Interior Design Skills Advanced Interior Design Skills
	Manufacturing Engineer		<u>Social Studies</u> Psychology
	Assembler	<u>Math</u> Algebra Geometry Pre-College Math	<u>Southeast Community College</u> Welding Academy
	Machine Operator	<u>Business</u> Personal Finance Entrepreneurship	<u>Science</u> Physics Biology
	Iron/Metalworker		
Transportation, Distribution & Logistics	Industrial Equipment Mechanic	<u>Skilled & Technical Science</u> Essential Technical Skills	<u>Social Studies</u> Psychology
	Facility Maintenance Manager	<u>Math</u> Algebra Geometry Pre-College Math	<u>Business</u> Entrepreneurship Personal Finance
	Logistics Engineer or Manager	<u>Science</u> Physics Biology	
	Civil Engineer and Technician		
Science, Technology, Engineering, & Mathematics	Aeronautical Engineer	<u>Skilled & Technical Science</u> Essential Technical Skills Residential Design Introduction to Engineering Design	<u>Business</u> Entrepreneurship Personal Finance Info Tech 1 and 2
	Biotechnology Engineer		<u>Agriculture</u> Landscape Design
	Drafter	<u>Family & Consumer Sciences</u> Interior Design Skills Advanced Interior Design Skills	<u>Math</u> All Math Courses
	Quality Technician		<u>Science</u> All Science Courses
	Technical Writer	<u>Southeast Community College</u> Auto Technology	
	Lab/Research Technician		

	Skilled & Technical Science						
	6th	7th	8th	9th	10th	11th	12th
Engineering Pathway	Skilled and Technical Science 6	Skilled and Technical Science 7	Woods or Small Engines	Essential Technical Skills			
				I.E.D. - Introduction to Engineering Design			
				Residential Design			
	Where this Pathway Leads:						
On the Job Training, Apprenticeships, Journeymen, Community/Technical College, Bachelor Degree and Beyond	- Engineer	- General and Operations Managers				- Electricians	
	- Drafting	- Precision Machining and Automation				- Electricians	
	- Carpenters	- Industrial Technology Teacher					
	- Architect	- Electromechanical Technology/Mechatronics Engineering					
Manufacturing Pathway	Skilled and Technical Science 6	Skilled and Technical Science 7	Woods or Small Engines	Essential Technical Skills			
				Furniture Design*			
				Welding			
					Welding at SCC		
	Where this Pathway Leads:						
On the Job Training, Apprenticeships, Journeymen, Community/Technical College, Bachelor Degree and Beyond	- Electricians		- General and Operations Managers				
	- Carpenters		- Electromechanical Technology/Mechatronics Engineering				
	- Engineer		- Precision Machining and Automation Technology				
	- Industrial Technology Teacher						
Arch. & Construction Pathway	Skilled and Technical Science 6	Skilled and Technical Science 7	Woods	Essential Technical Skills			
				Furniture Design*			
				Intro to Building Construction			
					Construction Technology*		
	Where this Pathway Leads:						
On the Job Training, Apprenticeships, Journeymen, Community/Technical College, Bachelor Degree and Beyond	- Architect		- General and Operations Managers		- Utility Lineworker		
	- Carpenters		- Industrial Technology Teacher		- Welding		
	- Electricians		- Plumbers, Pipefitters, and Steamfitters				
	- Engineer		- Heating, Air Conditioning, and Refrigerations (HVAC)				
* Double check Prerequisites for your grade level							

Essential Technical Skills

Course Length:	One semester
Grade Level:	9, 10, 11, 12
Prerequisite:	None
Course Credit:	5 credits
Cost:	Students will pay all costs of personal projects <ul style="list-style-type: none">• Cost will vary depending on which project the student selects and current market price of lumber. Typical material cost is \$50-\$75 depending on project selection• Safety glasses are required. We offer a low cost (under \$5) pair of safety glasses that students may purchase from the school. Students may also bring their own, but they will need to remain at school.

This course will study the essential technical skills for independence. Students will explore three key skills that will prepare them for the world of work or being an independent weekend warrior. These skills are car care, product design, and woodworking.

- Basic automobile maintenance and ownership will cover:
 - What is an automobile.
 - How to purchase an automobile and the cost associated with owning an automobile.
 - Basic home maintenance and how to interact with a technician should the need arise.
 - Roadside safety.
- Design skills including drafting, blueprint reading and project planning, using sketching and basic computer aided drafting (C.A.D.) design.
- Woodworking will include:
 - Using and knowing the safety of hand tools, and machines.
 - Students will build a Metric 500 CO2 race car (\$10) and
 - Two of the following: trophy shelf, toolbox, candy machine. (\$20 total)
 - Or an End Table (\$30-\$75, depending on wood type selected)

Furniture Design and Assembly

Course Length:	One semester
Grade Level:	9*, 10, 11, 12
Prerequisite:	Essential Technical Skills is recommended. *Freshman must have taken 8th grade "Woods"
Course Credit:	5 credits
Cost :	Students will pay all costs of personal projects. <ul style="list-style-type: none">• Cost will vary depending on which project the students selects and current market price of lumber. Typical material costs \$80-\$300 depending on project selection.• Safety glasses are required. We offer a low cost (under \$5) pair of safety glasses that students may purchase from the school. Or students may bring their own that need to remain at school.

Students will study the manufacturing process by exploring project design and estimation techniques, wood joinery, assembly, surface preparation, and finishing. Students will develop advanced woodworking skills and learn the safety of power hand tools and machines. These techniques will be used to build one preselected project. They will build projects of their own choosing to fill remaining days (usually 1-2 projects).

Note: Students may repeat this class (once – and only once) to concentrate their study on advanced levels. Students will work with the teacher to set individual learning plans for advanced levels.

Introduction to Engineering Design (I.E.D.) 1

Course Length: One semester
Grade Level: 9, 10, 11, 12
Prerequisite: None
Course Credit: 5 credits

Students will be introduced to engineering design. Project Lead the Way (PTLW) Curriculum will guide students in a hands-on course to explore engineering. Students will be introduced to sketching, 3D computer drafting, and explore scientific reasoning skills.

Introduction to Engineering Design (I.E.D.) 2

Course Length: One semester
Grade Level: 9, 10, 11, 12
Prerequisite: Introduction to Engineering Design (I.E.D.) 1
Course Credit: 5 credits

This semester is a continuation of Project Lead the Way (PTLW) curriculum, which will guide students in a hands-on course to explore engineering. Students will be introduced to sketching, 3D computer drafting, and explore scientific reasoning skills.

Fine Arts

Spanish 1-2

Course Length:	Two semesters
Grade Level:	9, 10, 11, 12
Prerequisite:	None
Course Credit:	10 credits

This is the foundation course in learning Spanish as a second language. The student begins to develop the skills of listening, speaking, reading and writing in Spanish. Vocabulary and rules of the language are studied. The cultures of Spanish-speaking countries and individuals are also embedded in the curriculum.

Note: Student must receive a B or higher each semester of Spanish 1, Spanish 2, Spanish 3 and Spanish 4 to continue to Spanish 5/6 and beyond.

9th Grade Band

Course Length:	Two semesters
Grade Level:	9
Prerequisite:	By audition or director permission
Course Credit:	10 credits
Cost:	A \$25 per semester fee will apply to any band student using a school-owned musical instrument

9th Grade Band will provide students with an opportunity for continued development of musical fundamentals and a wide variety of musical literature and studies. Students will be required to participate in band performances. Band performances will include concerts, solo and ensemble festivals, marching experiences, and pep band.

Waverly Singers

Course Length:	One or two semesters
Grade Level:	9, 10, 11, 12
Prerequisite:	None
Course Credit:	5 or 10 credits

Waverly Singers is an advanced choral ensemble for ALL VOICES. Waverly Singers studies a variety of musical styles. Students will be expected to rehearse and perform using an advanced level of musicianship and self-discipline and will grow in their musical knowledge of sight-singing, solfege, vocal technique, and choral singing. Required evening concerts will be given throughout the year including fall, Holiday, Spring, and Large Group District Adjudicated events in April, as well as community performances. Students will also have the opportunity to participate in District Solo and Ensemble Adjudicated Events.

Theatre

Course Length: One semester
Grade Level: 9, 10, 11, 12
Prerequisite: None
Course Credit: 5 credits

Theatre is a performing arts class designed to immerse students in the history, language, physical space, literature, writing, marketing, interpretation, technology, creative design, collaboration, physical movement, and vocal expression that is theatre. In this class, students will be exposed to all facets of the theatre and have the opportunity to delve into areas of their highest interest with the end result being a collaborative production.

Note: Students may take this class a second time if they received a B or higher the first time. Repeat students will have adjusted assignments and more opportunity to demonstrate leadership and hone individual skills.

Introduction to Art

Course Length: One semester
Grade Level: 9, 10, 11, 12
Prerequisite: None
Course Credit: 5 credits
Cost: \$20 consumable fee

Want to try something new? This introductory class will explore all methods of artmaking including sculpting, fiber arts, drawing, printmaking, painting, and ceramics. An emphasis on building creativity will be encouraged through sketching and using the creative process to solve artistic problems. The primary goal of this course is to develop technical skills in a variety of media through process based, guided projects, for students new to the fine arts.

Note: This course cannot be repeated.

Art Exploration: Painting

Course Length: One semester
Grade Level: 9, 10, 11, 12
Prerequisite: Introduction to Art or 8th Grade Art
Course Credit: 5 credits
Cost: \$20 consumable fee

This class will be dedicated to learning and exploring painting styles and techniques. Each student will explore the various applications of painting, techniques involving, and the use of appropriate art elements that include line, shape, texture, color, and value. Students will also be exposed to a variety of expressive experiences using the principles of design to enhance their own personal awareness. Students will be introduced to watercolor, acrylic and oil paints exploring styles such as expressionism, surrealism, impressionism, realism and abstract art. Students will be responsible to pay for consumable materials.

Note: This course cannot be repeated.

Art Exploration: Sculpting

Course Length:	One semester
Grade Level:	9, 10, 11, 12
Prerequisite:	Introduction to Art or 8 th Grade Art
Course Credit:	5 credits
Cost:	\$20 consumable fee

Explore the various materials used to create sculptures. Each student will be introduced to the theory, techniques, and construction methods of sculpture. Materials such as wire, plaster, paper mache, wood, foam board, and found objects will all be used to construct 3-D forms of art. Emphasis will be placed on the design process and elements of art. Students will be responsible to pay for consumable materials.

Note: This course cannot be repeated.

Art Exploration: Drawing and Printmaking

Course Length:	One semester
Grade Level:	9, 10, 11, 12
Prerequisite:	Introduction to Art or 8 th Grade Art
Course Credit:	5 credits
Cost:	\$20 consumable fee

It all starts and ends with drawing, the foundation every artist needs. Each student will expand upon skills in a two-dimensional framework. Advanced drawing and design techniques will be explored as will printing processes such as block printing. Basic elements of art, and the principles of design, will be incorporated into each area. Emphasis will be on creating a more finished and refined product. Students will be responsible to pay for consumable materials.

Note: This course cannot be repeated.

Art Exploration: Ceramics/Pottery

Course Length:	One semester
Grade Level:	9, 10, 11, 12
Prerequisite:	Introduction to Art or 8 th Grade Art
Course Credit:	5 credits
Cost:	\$25 consumable fee

Learn to create with your hands! This course includes instruction in all hand building techniques including sculpting, pinch, coil, slab, and the pottery wheel. Each student will be introduced to ceramic materials, techniques of pottery construction, surface treatments and glazing, and safe operation of relative tools and equipment. Students will be introduced to clay as an artistic, functional material using elements and principles of design as they relate to pottery. Students will be responsible to pay for consumable materials.

Note: This course cannot be repeated

Physical Education

Health

Course Length:	One semester
Grade Level:	9
Prerequisite:	Required
Course Credit:	5 credits
Fee:	\$15 fee if student would like to be CPR certified to cover cost of the certification card

Health covers the following topics: wellness, nutrition, fitness, stress, drugs and alcohol, tobacco, safety and accident prevention, body systems, first-aid, heart disease and cancer, and infectious diseases. CPR training with a written CPR exam and suicide prevention are taught during this course.

Unified Physical Education

Course Length:	One semester or Two Semester
Grade Level:	9, 10, 11, 12
Prerequisite:	Permission from counselor required. Upperclassmen receive priority registration.
Course Credit:	5 credits or 10 credits

Unified Physical Education provides a unique opportunity for students with and without disabilities to come together through ongoing education and physical activities. This class promotes social integration, peer support, and the development of essential life skills, such as communication, teamwork, and empathy. Unified PE aims to break down barriers and build connections among all students. It supports the development of leadership skills for all students, and the empowerment of ALL students to foster an inclusive class and school-wide environment.

Sources: Text: Special Olympics: Unified-Physical-Ed-Resources-Aug-2019.

[Guide for Individuals with Disabilities](#)

Math

Pre-Algebra

Course Length:	Two semesters
Grade Level:	9
Prerequisite:	REQUIRES teacher/counselor recommendation; MAP score will be considered
Course Credit:	10 credits

This course builds on a students' understanding of basic math concepts covered in middle school and helps provide a necessary foundation for success in Algebra 1-2.

Algebra 1-2

Course Length:	Two semesters
Grade Level:	9, 10, 11, 12
Prerequisite:	None
Course Credit:	10 credits

This course uses students' understanding of basic math concepts to develop algebraic concepts and skills to provide a necessary foundation for success in future studies in mathematics. A successful foundation is achieved through learning to write, solve, and graph linear and exponential equations, solving systems of linear equations, and modeling real-life linear and exponential functions. Students will learn the notations and symbolic representations that will be further developed in later mathematics courses.

Geometry

Course Length:	Two semesters
Grade Level:	9, 10, 11, 12
Prerequisite:	Algebra 1-2
Course Credit:	10 credits

This introductory Geometry course integrates some formal proof with concept development. Students will study plane figures such as triangles, quadrilaterals, and other polygons through deductive and inductive reasoning. Students will also learn the vocabulary, notations, and properties used to describe one, two, and three-dimensional objects as well as study ratios, proportions, and right triangle trigonometry. Emphasis will be placed on spatial visualization, algebra-geometry relationships, technology, and proofs.

Honors Geometry

Course Length:	Two semesters
Grade Level:	8, 9, 10
Prerequisite:	Algebra 1-2 (with a strong academic performance both semesters with a recommended grade of at least a B earned both semesters) MAP/Pre ACT score and/or teacher recommendation will be considered.
Course Credit:	10 credits

This honors course of geometry explores additional topics and investigates topics in *greater* depth and at a much *faster* speed than in the standard course. The honors course also includes a more substantial study of algebra, technology, and formal proof throughout the course.

Algebra 3-4

Course Length:	Two semesters
Grade Level:	9, 10, 11, 12
Prerequisite:	Algebra 1-2 and Geometry/Differential Geometry
Course Credit:	10 credits

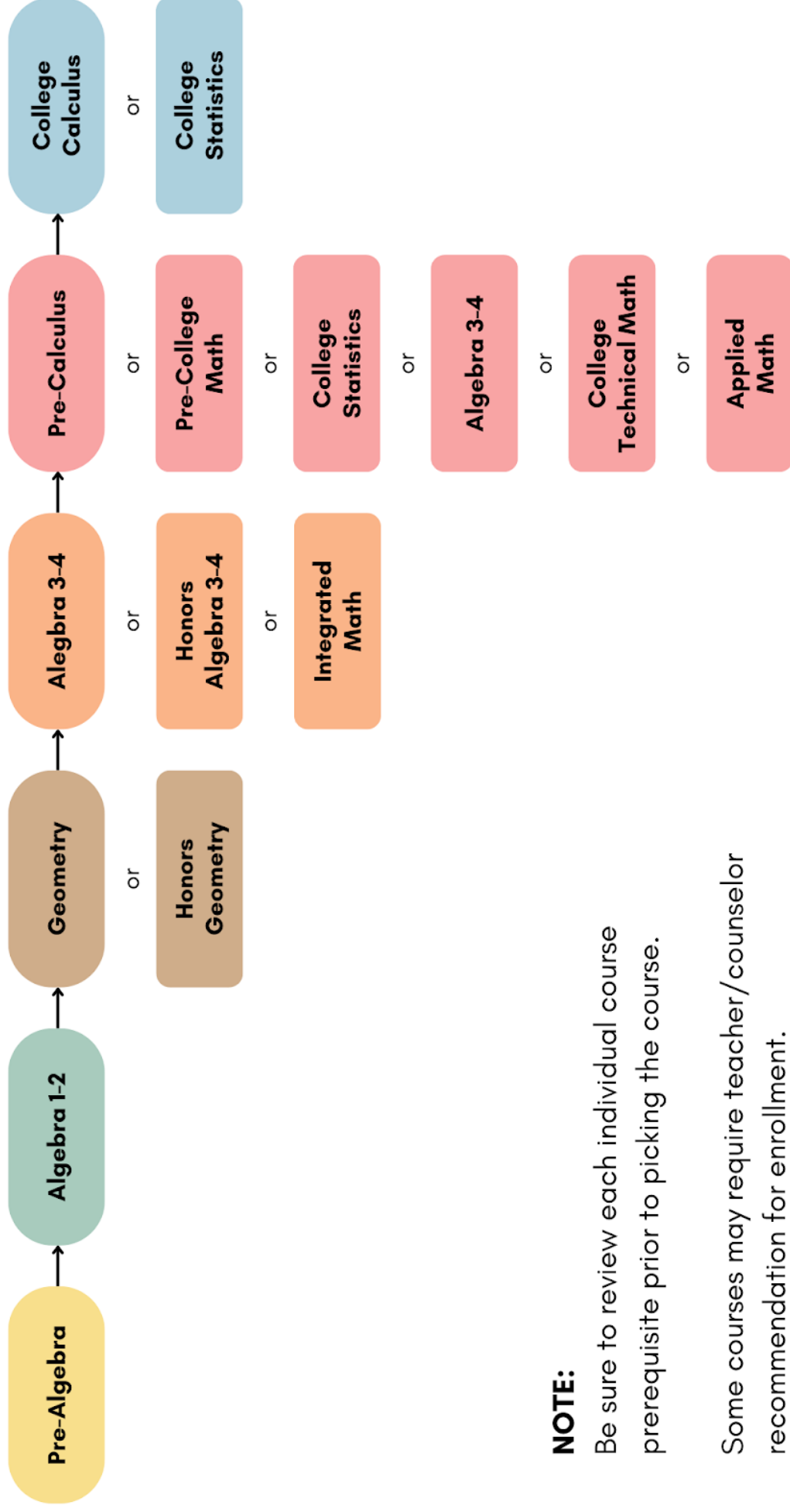
Algebra 3-4 is essential for most colleges and many vocational programs. This course builds upon student mastery of algebraic expressions and forms by reemphasizing solutions and graphs of linear functions from Algebra 1-2 and expanding to solutions and graphs of quadratics, powers and roots, and functions based upon these concepts. Students study logarithmic, trigonometric, polynomial and other special functions, learning of their abstract properties and of their uses as tools for modeling real-world situations. Students will also deepen their understanding of probability as well as learn how to use graphing calculators and other technologies. Algebra 3-4 also places emphasis on ACT preparation.

Honors Algebra 3-4

Course Length:	Two semesters
Grade Level:	9, 10, 11, 12
Prerequisite:	Algebra 1-2 and Geometry/Differential Geometry (with a strong academic performance, earning a recommended grade of at least a B both semesters); Algebra placement test, MAP/Pre ACT score and/or teacher recommendation will be considered.
Course Credit:	10 credits

Honors Algebra 3-4 offers an alternative to Algebra 3-4 for students looking to challenge their mathematical abilities and pursue careers and programs of study in math and science. The curriculum consists of traditional Algebra 3-4 concepts plus foundational topics from precalculus. These latter topics could include functions built from high-order polynomials, rational expressions, logarithms, and trigonometry. Across all of these topics, the curriculum will require students to solve complex problems and then apply, analyze, and evaluate the results. Three factors differentiate Honors Algebra 3-4 from Algebra 3-4: faster pace, increased content volume, and higher expectations for attaining depth of knowledge. To qualify for Honors Algebra 3-4, a student must have demonstrated a strong Algebra 1-2 performance, a teacher recommendation and qualifying scores on the NWEA MAP Growth assessments and on algebra placement test (to be administered during Geometry or Honors Geometry fall semester exam).

3 YEARS OF MATH ARE REQUIRED FOR GRADUATION



NOTE:

Be sure to review each individual course prerequisite prior to picking the course.

Some courses may require teacher/counselor recommendation for enrollment.

English

English 9

Course Length:	Two semesters
Grade Level:	9
Prerequisite:	Required
Course Credit:	10 credits

This is a year-long, introductory English course in which students will develop their reading, writing, speaking, and listening skills in an integrated program of individual, small, and large group work. The focus of the course is reading comprehension and basic writing skills. Students will read and analyze both literary and nonfiction texts with opportunities to craft effective oral and written responses.

Shea, Renee, H. et al. *Foundations of Language and Literature*. Bedford, Freeman, and Worth, 2018.

Science

Earth/Physical Science

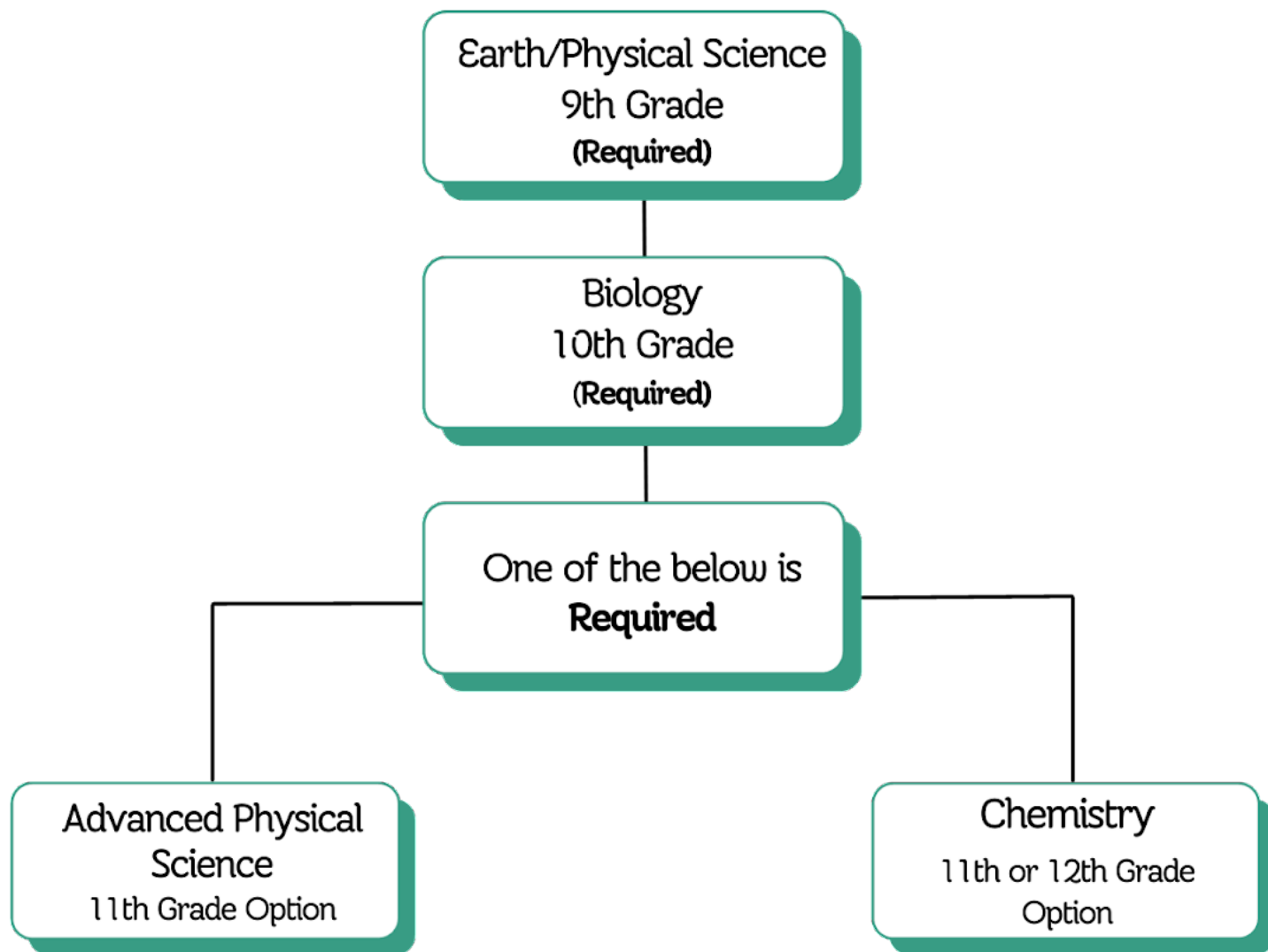
Course Length: Two semesters
Grade Level: 9
Prerequisite: Required
Course Credit: 10 credits

Semester 1: Earth and Space Science is the study of the processes that shape the Earth and explain the universe. This course will explore the branches of Earth Science, which includes the following: geology, meteorology, climate, and astronomy. In this science course, students will learn in detail about the Earth's interior and the theory of plate tectonics, how spheres of the Earth interact with each other, the influence that weather and climate have on the Earth, how Earth has changed over geologic time and lastly looking at the formation of stars and other stellar objects in the universe.

Semester 2: Physical Science is the study of the relationship between matter and energy. This class will provide an introduction to basic physics. Students will learn about Newton's Laws of Motion, Forces, Waves, and Electromagnetic Radiation, and Energy Transfer.

3 YEARS OF SCIENCE ARE REQUIRED FOR GRADUATION

Earth/Physical Science
Biology
Chemistry **OR** Advanced Physical Science



SCIENCE ELECTIVES

Anatomy
11th or 12th Grade

AP Biology
11th or 12th Grade

Physics
11th or 12th Grade
If requirements are met

Social Studies

United States History

Course Length: Two semesters
Grade Level: 9, 10, 11, 12
Prerequisite: Required
Course Credit: 10 credits

This course studies United States History from the 1870's through the early 21st Century. The course is centered around seven central frameworks (themes): Civic Ideals & Practices, Power & Authority, Innovation & Change, Economics, Conflict & Consequence, Beliefs & Culture, and Geography.

Special Education

Essential Communications

Course Length:	One semester or Two semesters
Grade Level:	9, 10, 11, 12
Prerequisite:	Must be identified <u>and</u> have permission of counselor and case manager
Course Credit:	5 credits or 10 credits

Discover & deepen your knowledge and skills necessary for gaining appropriate communication skills. This course will help improve social skills and social interactions among teens and will support the growth and goals of each student's IEP. Students will focus on skills related to making and keeping friends and managing peer conflict and rejection. Students will work through lessons with concrete rules and steps, be responsible for homework assignments, and participate in unique, fun activities to ensure that teens are comfortable incorporating what they've learned. The following are the key focuses uncovered in this course:

- Trading Information, Two-Way Conversations and Electronic Communication
- Choosing Appropriate Friends
- Appropriate Use of Humor
- Starting, Joining and Exiting Conversations
- Good Sportsmanship
- Get-Togethers
- Handling Arguments
- Changing Reputations
- Handling Teasing and Embarrassing Feedback
- Handling Physical and Cyber Bullying
- Minimizing Rumors and Gossip

Text: The PEERS Curriculum for School-Based Professionals: Social Skills Training for Adolescents with Autism Spectrum Disorder. Laugeson, Elizabeth A. 2014.

English Foundations

Course Length:	Two semesters
Grade Level:	9, 10, 11, 12
Prerequisite:	Must be identified <u>and</u> have permission of counselor and case manager
Course Credit:	10 credits

This course provides a skills-based approach to reading and writing for students with special needs. Students will gain basic reading and writing skills that are prerequisite skills for success throughout their lives. Skill development will be facilitated according to individual needs. Areas of focus will include reading accuracy, fluency, and generalization; sentence structure preparation and design; graphic organization; and strategy use. English Foundations will help students increase their appropriate use of vocabulary and standard English conventions for sentence structure, usage, punctuation, capitalization, and spelling. Students will be able to gain an appreciation and enjoyment of English. It will replace the English 9, English 10 and/or English 11 graduation requirement, based on the student's year in school. Students may take English Foundations all four years if that is the appropriate placement for the student.

Essential Reading

Course Length: Two semesters
Grade Level: 9, 10, 11, 12
Prerequisite: Must be identified **and** have permission of counselor and case manager
Course Credit: 10 credits

This course is modified to meet each student's needs. It focuses on the reading skills needed to become a productive participant in society. Students will connect reading to their everyday lives and specific needs to gain successful employment and independent living. Students will build skills needed to function safely in daily activities. The areas of focus include building the vocabulary needed to: communicate their wants and needs, asking for assistance both in the community and workplace, recognizing and understanding community and survival signs, using menus and basic banking forms, reading a calendar, recognizing personal data, safely using information found on labels, reading the weather, reading written directions, making a shopping list, and more.

Math Foundations

Course Length: Two semesters
Grade Level: 9
Prerequisite: Must be identified **and** have permission of counselor and case manager
Course Credit: 10 credits

Math Foundations is a math course for students who need to improve their basic math skills and number sense, which are prerequisite skills for success in future math courses. Skill development will be facilitated according to individual needs. Areas of focus will include the following: improve skills in the basic operations; use knowledge of basic math skills and apply them to "real-life" situations; how to properly use a calculator; interpret simple graphs and tables; learn to read, use and convert simple measurement tools; and learn basic algebra and geometry concepts.

Essential Math

Course Length: Two semesters
Grade Level: 9, 10, 11, 12
Prerequisite: Must be identified **and** have permission of counselor and case manager
Course Credit: 10 credits

This course is modified to meet the student's needs. Practical math for jobs in restaurants, automobile salerooms, machine shops, service stations, stores, and banks. Includes thorough instruction in basic math skills using real-life situations, word problems, exercises, puzzles, and more. The course will focus on relating basic math skills to managing finances. The course may include budgeting, paying bills, managing a checkbook, buying and maintaining a car, computing taxes, banking, telling time, counting money, buying food, managing a household, using in different forms, calculator usage, and cooking. This course will also focus on relating basic math skills to everyday living and using hands-on activities.

Study Skills

Course Length: Two semesters
Grade Level: 9, 10, 11, 12
Prerequisite: Must be identified **and** have permission of counselor and case manager
Course Credit: 10 credits

Study Skills classes are available to those students who are identified for resource assistance. Students will be required and expected to bring and work on assignments from general education classes as well as complete weekly vocational, learning, self-advocacy and strategy activities. Assistance will be provided by resource teacher(s) and paraeducator(s) in order to strengthen academics and other skill areas.

Functional Skills

Course Length: Two semesters
Grade Level: 9, 10, 11, 12
Prerequisite: Must be identified **and** have permission of counselor and case manager
Course Credit: 10 credits

The course is modified to meet the student's individual needs. The following are samples of the skills that may be taught in this course: daily living skills, laundry, household chores, cooking, filling out a job application, social skills, career readiness technical skills, how to check and compose emails, internet safety, emergency preparedness, basic first-aid, and more. Students may take part in community-based learning opportunities to enhance the application of these skills.

Success

Course Length: Two semesters
Grade Level: 9, 10, 11, 12
Prerequisite: Must be identified **and** have permission of counselor and case manager
Course Credit: 10 credits

The High School Success Program is a specialized education program designed to support students who may benefit from a more structured and targeted instruction approach to address their behavioral and academic needs. This program ensures that students receive the appropriate level of support based on their individual needs.

Advanced Communications

Course Length:	One semester or two semesters
Grade Level:	9, 10, 11, 12
Prerequisite:	Communications & Must be identified <u>and</u> have permission of counselor and case manager
Course Credit:	5 credits or 10 credits

Discover and deepen your knowledge and skills necessary for gaining, maintaining, and interpreting communications. This course will improve social skills and social interactions among teens, between teens and adults, and between teens and employers to support the growth and goals of each student's IEP. Students will focus on skills related to managing peer conflict and rejection, self-advocacy, and interpreting figurative language in conversation and communications. Students will work through lessons with concrete rules and steps, be responsible for homework assignments, and participate in unique, fun activities to ensure that teens are comfortable incorporating what they've learned. The following are key focus areas covered in this course:

- Trading information and starting conversations
- Trading information and maintaining conversations
- Finding a source of friends
- Electronic communication
- Appropriate use of humor
- Entering group conversations
- Exiting conversations
- Get-togethers
- Dating Etiquette--Do's and Don'ts
- Handling Disagreements
- Handling direct and indirect bullying
- Work-related communication and conversation
- Code-Switching

Text: PEERS for Young Adults--Social Skills Training for Adults with Autism Spectrum Disorder and other Social Challenges. Laugeson, Elizabeth A. 2017.

Waverly High School

Graduation Requirements

<u>English</u>	40 Credits
<ul style="list-style-type: none">• Must Include English 9, 10, & 11	
<u>Social Studies</u>	30 Credits
<ul style="list-style-type: none">• Must include United States History, World History, & Constitution	
<u>Fine Arts</u>	10 Credits
<u>Mathematics</u>	30 Credits
<u>Science</u>	30 Credits
<ul style="list-style-type: none">• Must include Earth/Physical Science & Biology• Must include Advanced Physical Science OR Chemistry	
<u>Physical Education</u>	15 Credits
<ul style="list-style-type: none">• Must include Health	
<u>Financial Literacy</u>	5 Credits
<ul style="list-style-type: none">• Personal Finance	
<u>Computer Science and Technology</u>	5 Credits
<ul style="list-style-type: none">• Foundations of Computing	<i>(Graduating Class of 2028 & beyond)</i>
<u>Electives</u>	80 Credits
	<i>(Graduating Class of 2024-2026)</i>
	75 Credits
	<i>(Graduating Class of 2028 & beyond)</i>
Total Credits Needed	240 Credits

Note: 1 semester class = 5 credits

Four-Year College Recommendations:

- 40 credits of math
- 40 credits of English
- 30 credits of social science (social studies)
- At least 30 credits of science
- At least 20 credits (two years) of Spanish

Grading Scale for the 2024-25 school year

Grade Scale:

A -	93 - 100	= 4 mark points
B -	85 - 92	= 3 mark points
C -	77 - 84	= 2 mark points
D -	69 - 76	= 1 mark point
F -	0 - 68	= 0 mark points
P -	Pass	

Grade Scale: AP & Dual Credit

A -	90 - 100	= 4 mark points
B -	80 - 89	= 3 mark points
C -	70 - 79	= 2 mark points
D -	60 - 69	= 1 mark point
F -	0 - 59	= 0 mark points

Previous grades will not retroactively adjust but will utilize this grading scale moving forward.

Notice of Non-Discrimination

School District 145 does not discriminate on the basis of sex, disability, race, color, religion, veteran status, national or ethnic origin, marital status, pregnancy, childbirth or related medical condition, or other protected status, or other protected status in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups. The Director of Special Education/Student Services Coordinator has been designated to handle inquiries regarding the non-discrimination policies, including Federal Title IX and Section 504 compliance procedures, for students, employees and others:

Delanie McMillan, 14511 Heywood Street, P.O. Box 426, Waverly, NE 68462 (402) 786-2321.

For further information about anti-discrimination laws and regulations, or to file a complaint of discrimination with the Office for Civil Rights in the U.S. Department of Education (OCR), please contact the OCR at 601 East 12th Street, Room 353, Kansas City, MO 64106, (800) 368-1019 (voice), Fax (816) 426-3686, (800) 537-7697 (telecommunications device for the deaf), or ocr.kansascity@ed.gov. The Complaint Form can be found on the district website at www.district145.org. Click on the Central Office Tab, Click on Notice of Non-Discrimination.