

## FHS Course Book 2021/2022

### 11th Grade - Core Classes

Department	Course Name	Prerequisite	Grade Level	Course Length	Brief Description
Advanced Placement (AP)	AP Biology	Consistent high scores in prior science classes and assessments or Teacher recommendation	11-12	Full Year	This class is offered online and counts towards science credits needed for graduation. Students have the option to take the AP exam at the end of the year.
Advanced Placement (AP)	AP Chemistry	Consistent high scores in prior math and science classes and assessments or Teacher recommendation	11-12	Full Year	This class is offered online and counts towards science credits needed for graduation. Students have the option to take the AP exam at the end of the year.
Advanced Placement (AP)	AP US History	Consistent high scores in prior Social Studies and ELA classes and assessments or Teacher recommendation	11	Full Year	This class is offered online and replaces American History. Students have the option to take the AP exam at the end of the year.
Advanced Placement (AP)	AP English - Language and Composition	Consistent high scores in prior ELA classes and assessments or Teacher recommendation	11	Full Year	This class is offered online and replaces ELA 11. Students have the option to take the AP exam at the end of the year.
Advanced Placement (AP)	AP Calculus AB	Consistent high scores in prior math classes and assessments or Teacher recommendation	11-12	Full Year	This class is offered online and counts towards math credits needed for graduation. Students have the option to take the AP exam at the end of the year.
Advanced Placement (AP)	AP Statistics	Consistent high scores in prior math classes and assessments or Teacher recommendation	11-12	Full Year	This class is offered online and counts towards math credits needed for graduation. Students have the option to take the AP exam at the end of the year.

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Language Arts	ELA 11	Pass both semesters of ELA 9; pass ELA 10	11th	Semester	This course provides a survey of literature and composition as directed by the SD state standards for English-Language Arts. Students must pass this course to qualify for ELA 12. Students cannot graduate from FHS without passing both semesters of ELA 11.
Ag/Math	Principles of construction and structures	N/A	10.11.1 2	Year long	Principles of construction and structures is a yearlong course that will extend students' proficiency in mathematics and apply these skills to technical and/or industrial situations and problems. This course will offer basic skills needed to be successful in the agricultural structures industry, such as the safe use of hand tools and power tools, drafting of structural plans, concrete and electrical fundamentals. Classroom and laboratory content may be enhanced by utilizing appropriate equipment and technology. English, algebra, geometry, trigonometry, rational numbers, systems of measurements, tolerances, numerical language, and human relations skills will be reinforced in the course. Work-based learning strategies appropriate for this course are school-based enterprises and field trips
Math	Algebra II	Passing scores in Algebra I	9th*, 10th, 11th*	Year long	This course provides a survey of Algebra II concepts as directed by the SD state standards for Math. This class will count towards math graduation credit.
Math	Geometry	Passing scores in Algebra I & II	10th, 11th	Year long	This course provides a survey of Geometry concepts as directed by the SD state standards for Math. This class will count towards math graduation credit.
Math	Probability/ Statistics	Alg 2 and Geom OR taken at the same time	10, 11, 12	Semester	Semester long course that covers the basic foundations of probability and statistics. Students learn counting methods, probability, descriptive statistics, graphs of data, the normal curve, statistical inference, and linear regression..This class may count towards math graduation credit.
Math	Trigonometry	Alg 2/Geom OR taken at the same time	10, 11, 12	Semester	Semester long course where students will have an understanding of how trigonometry is used in daily life and how it relates to other mathematical topics. Students will use trig to analyze parts of triangles. Graphs of trig functions, manipulating trig identities, and performing operations involving the unit circle are other components of the course.This class may count towards math graduation credit.
Math	ACT Math Prep	Alg 1	10, 11, 12	Semester	This semester long course will go through the types of problems students will see on an ACT Math Test. The students will take practice tests and will delve deeper into problem areas found after those tests.This class may count towards math graduation credit.
Science	Conceptual	NA	10, 11,	Year	A day to day look at how physics affects life. Focus on traditional portions of a

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	Physics		12	long	physics class with more real world/real scenario application.This class may count towards math graduation credit.
Science	Earth and Space Science	N/A	10, 11, 12	Year long	Focus on history of the Earth and history of space, as well as up and coming practices and developments within these areas.This class may count towards math graduation credit.
Science	Chemistry	N/A	10, 11, 12	Year long	Students in Chemistry I will participate in lectures, labs, hands-on activities, and independent study to learn about matter and the changes it may undergo. Chemistry topics include atomic structure, nomenclature, chemical equations, stoichiometry, bonding, and the gas laws.This class may count towards math graduation credit
Science	Anatomy and Physiology	C+ or better in Biology	11, 12	Year long	Lots of coloring to learn vocabulary and location of the various body system components. Labs will focus on concepts covered within the independent coloring assignments. Students will also have the chance to dissect various organs, as well as a mink. Majority of dissecting to take place during 2nd semester. 1st semester is required.
Science	Forensic Science	NA	11, 12	Year long	Focus on criminal investigation techniques and different types of crime. Gain knowledge that would be beneficial in a law enforcement career or forensic science career. Must receive parental permission to take course. (Form provided in class)
Science	Physical Science	Teacher Recommendation Only	9, 10, 11, 12	Year Long	Only by teacher recommendation. Focus one half of the year of basic chemistry and half of year of basic physics concepts.
Social Studies	American History	N/A	11	Year long	In this required course, students will learn about the people and events of America's past beginning with the Civil War and their relationship to the present and future. Students must pass this course to qualify for Government. Students cannot graduate from FHS without passing both semesters of American History.

### 11th Grade Elective Options

Department	Course Name	Prerequisite	Grade Level	Course Length	Brief Description
Ag	Metal Fabrication 1 18401	N/A	11, 12	Fall Semester	The Ag Metal Fabrication Technology course provides students with advanced metal fabrication skills, which include Shielded Metal Arc Welding (SMAW), Metal Inert Gas (MIG) welding/Gas Metal Arc Welding (GMAW), and plasma cutting. This course will also incorporate soft skills necessary for careers in the Power, Structural, and Technical Systems career pathway
Ag	Metal Fabrication 2	N/A	11, 12	Spring	The Ag Metal Fabrication Technology course provides students with

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	18404			Semester	advanced metal fabrication skills, which include Shielded Metal Arc Welding (SMAW), Metal Inert Gas (MIG) welding/Gas Metal Arc Welding (GMAW), oxyacetylene fuel welding, brazing and cutting, Gas Tungsten Arc Welding (GTAW)/Tungsten Inert Welding (TIG), and plasma cutting. This course will also incorporate soft skills necessary for careers in the Power, Structural, and Technical Systems career pathway
Ag	Ag Business	N/A	11,12	Semester	Agribusiness Management is a semester-length or year-long high school elective that introduces the business, management, marketing, and financial skills needed to successfully produce food, fiber, and fuel for domestic and global markets. Students will learn about the components of the agribusiness system and how they interact to deliver food to our tables. They will also learn about the key elements of a successful agribusiness enterprise: economics, financial management, marketing and sales, and government policies and regulations.
Ag	Ag Leadership & Communications	N/A	11, 12	Semester	The world population is expected to increase to 9 billion by 2050. The agricultural industry will need strong leadership to guide us to provide food, fiber and fuel for this growing population. Agricultural education prepares students for successful careers and a lifetime of informed choices in the global agriculture, food, fiber and natural resources systems. Agriculture Leadership and Communications will provide students with fundamental skills for success in agricultural careers and team environments. Students will investigate a variety of topics essential to communicating about the industry of agriculture.
Ag	Wildlife & Fisheries	N/A	9,10, 11, 12	Semester	Management of South Dakota's wildlife and fisheries is critical to our future economic stability. Skills gained in this area will be beneficial to students seeking careers in the many facets of wildlife and fisheries. The Wildlife and Fisheries course addresses the biological and environmental issues related to wildlife and fisheries management within our state.
Ag	Ag Food Processing	N/A	10, 11, 12	Fall Semester	Ag Processing Technology highlights the raw commodity and its journey to consumer-ready, value-added products. Utilizing appropriate equipment, technology, mathematics, science and English, may enhance classroom and laboratory content and human relations skills will be reinforced in the course.
Ag	Food Science	N/A	10, 11, 12	Spring Semester	The state of South Dakota is diverse in the agriculture products it produces and the value added food products available to the consumer. Food Science is a course designed to provide students with an overview of food science and its importance to producers and consumers. .
Ag/Math	Principles of construction and	N/A	10, 11, .12	Year long	Principles of construction and structures is a yearlong course that will extend students'

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	structures				proficiency in mathematics and apply these skills to technical and/or industrial situations and problems. This course will offer basic skills needed to be successful in the agricultural structures industry, such as the safe use of hand tools and power tools, drafting of structural plans, concrete and electrical fundamentals. Classroom and laboratory content may be enhanced by utilizing appropriate equipment and technology. English, algebra, geometry, trigonometry, rational numbers, systems of measurements, tolerances, numerical language, and human relations skills will be reinforced in the course. Work-based learning strategies appropriate for this course are school-based enterprises and field trips
Business	Introduction to Business	N/A	9, 10, 11, 12	Semester	Introduction to Business introduces students to the world of business, including the concepts, functions, and skills required for meeting the challenges of operating a business on a local, national, and international scale. The course will focus on all aspects of business: the domestic and international economics, financial principles, management strategies, administrative and information systems, ethics, and organizational and professional leadership. Students will analyze the elements of the business environment and focus on attitudinal and problem-solving skills inherent to success.
Business	Business Management	N/A	9, 10, 11, 12	Semester	Business Management focuses on the development of the planning, organizing, leading, and controlling functions required for the production and delivery of goods and services. This applied knowledge course addresses the management role of utilizing the businesses' resources of employees, equipment, and capital to achieve an organization's goals.
Business	Entrepreneurship	N/A	10, 11, 12	Semester	Entrepreneurship education prepares students to carry out the entrepreneurial process and experience the entrepreneurial spirit. Developing an innovative idea is one of the first steps of a successful business.
Business	Accounting I	Intro to Tech preferred as excel used extensively.	9, 10, 11, 12	Semester	Accounting is the language of business and an integral aspect of all business activities. Accounting I introduces concepts and principles based on a double entry system of maintaining financial records for a sole proprietorship, partnership, and corporation. It includes analyzing business transactions, journalizing, posting, and preparing worksheets and financial statements. Technology will be incorporated as an essential tool where resources are available. Computerized accounting may be incorporated where resources are available.
Business	Advanced Accounting (Accounting II)	Accounting I	10, 11, 12	Semester	Students in Advanced Accounting will develop advanced skills that build upon those acquired in Accounting I. We will move from a Sole-Proprietorship to an LLC company. Additional accounting skills such as departmentalized accounting, reconciling uncollectible accounts, calculating depreciation on assets, interpreting financial information, and calculating notes and interest will be developed. Computerized

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					accounting may be incorporated where resources are available.
Business	Marketing Principles	N/A	9, 10, 11, 12	Semester	Marketing Principles introduces the student to the basic concepts of modern marketing. Course content includes general marketing principles of product planning and production, distribution, pricing and promotions. Heavy emphasis will be placed on the impact of technology and social media on the marketing function.
FACS	Nutrition and Wellness	N/A	9, 10, 11, 12	Semester	Nutrition and Wellness educates students to make healthy lifestyle choices for personal, family, and career success across the lifespan. Topics include the impact of technology on nutrition, food choices, wellness and stress management, meal planning and preparation, dietary guidelines, and food safety and sanitation practices.
FACS	Culinary Arts	Nutrition and Wellness	10, 11, 12	Semester	Students in Restaurant Management/Culinary Arts I learn entry level culinary skills needed for success in the foodservice industry or continuing education. Students train in industry-specific skills that can be used in all areas of the foodservice industry.
FACS	Human Development: Prenatal to Toddlers	N/A	10, 11, 12	Semester	Understanding patterns, sequences, and stages of development is vital for guiding infants and toddlers to make informed decisions. Due to an increasing number of working parents and a need for highly qualified educators, trained personnel in the childcare field are in demand. Human development knowledge is essential for individuals seeking a career in education, health, medical and human service professions, and many other careers involving working with infants and toddlers
Fine Arts	Choir	Anyone who likes to sing.	9, 10, 11, 12	Full year	Students will sing in a group setting and perform in various concerts and contests throughout the year. Small group contest opportunities available, along with large group contests and All State Chorus. The music department also takes big trips every other year, so students who take choir should get an opportunity to take a fun trip. Choir is a year-long commitment.
Fine Arts	Piano 1	A want to learn the piano.	10, 11, 12	Semester	Students will learn the basics of playing the piano. They will start reading notes on the staff. They will learn about different positions on the piano. Students will be required to play by themselves for the teacher and possibly in a recital.
Fine Arts	Piano 2	Students must have taken Piano 1 and passed with at least a C.	10, 11, 12	Semester	Piano 2 will be a continuation of Piano 1. Students will be exposed to more positions, key signatures, and more complex songs.

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Fine Arts	Band	N/A	9, 10, 11, 12	Full Year	Students will play instruments in a group setting and perform in various concerts and contests throughout the year. Marching Band is the focus in the fall and concert band is the focus in the spring. Honor Band, Jazz Band and All-State Band opportunities are available. The music department also takes big trips every other year, so students who take band should get an opportunity to take a fun trip. Band is a year-long commitment.
Fine Arts	Drama	N/A	9, 10, 11, 12	Semester	Students learn the basics of theatre, including theatre history, acting techniques and production design. Students are expected to actively participate in course activities and work cooperatively with other students in project work.
Fine Arts	Art I	N/A	9, 10, 11, 12	Semester	Art I is a semester long prerequisite for any other art class. Projects in Art I will prepare the student to effectively use the elements and principles of art effectively while developing and refining skills needed in more advanced art classes. A variety of media will be explored through drawing, painting, ceramics, printmaking, and sculpture.
Fine Arts	Art II	Art I ( C or better)	9, 10, 11, 12	Semester	Art II is a semester-long class that allows the students to enhance their artistic abilities with a more challenging curriculum than in Art I. The class will delve further into developing personal style and artistic goals using a variety of media, as in Art I.
Fine Arts	Drawing/Painting	Art I	9, 10, 11, 12	Semester	Drawing and Painting is a semester long class. Student work will focus on increasing drawing skills and using paint as a medium, which will include watercolor and acrylic paint. Students will be challenged with improving their observational and creative thinking skills, and will gain an appreciation for different artists and styles.
Fine Arts	Art III	Art I and Art II	11, 12	Semester	Art III is a combination of independent study and advanced art problems given by the instructor. Students will complete a series of advanced projects placing emphasis on defining personal art style and medium mastery.
Fine Arts	Photography I	N/A	9, 10, 11, 12	Semester	This semester-long course will introduce students to photography as an art. Students will learn the basics of DSLR camera operation, composition, lighting, portfolio building, photo critique, and image editing in Photoshop.
Fine Arts	Photography II	Photography I (C or better)	9, 10, 11, 12	Semester	Photography II will further develop the skills learned in Photography I. Students will explore advanced editing techniques in Photoshop and further their creative photo-taking strategies by exploring various types of photography.

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Language Arts	Mythology	N/A	9, 10, 11, 12	Semester	Students will learn about Greek/Roman mythology in-depth and they will learn more briefly about other mythologies from around the world. Students will learn about the importance of mythology to culture, the principal gods/goddesses of the mythology, various mythological stories and their significance, as well as the differences and similarities between the various mythologies studied.
Language Arts	Historical Novels	N/A	10, 11, 12	Semester	Historical Novels: Learn history through great stories. In this semester-long class we'll read 4 novels, each set in a different time in history. If you like to read and are curious about the past, you will enjoy this class.
Language Arts	Creative Writing	C+ or better in 9th ELA (or written consent of instructor)	10, 11, 12	Semester	Creative Writing courses offer students the opportunity to develop and improve their technique and individual style in poetry, short story, drama, essays, and other forms of prose and explore opportunities for publication.
Language Arts	Career Communications	N/A	11, 12	Semester	This course is designed to help you develop skills that will enable you to produce clear and effective documents and oral communication for future course work and careers. We will explore the types and conventions of writing done in several different fields such as public relations, science and technology, and law. The course will also introduce students to business writing genres like reports, proposals, presentations and cover letters; students will work with specific document models, applying and adapting them to meet their needs.
Language Arts	Diversity in Literature	N/A	9, 10, 11, 12	Semester	Students will read and analyze various texts written by a diverse representation of contemporary authors. Students will examine relevant issues and themes and how experiences and perspectives may shape an author's voice.
Math	Probability/ Statistics	Alg 2 and Geom OR taking at the same time	10, 11, 12	Semester	Semester long course that covers the basic foundations of probability and statistics. Students learn counting methods, probability, descriptive statistics, graphs of data, the normal curve, statistical inference, and linear regression.
Math	Trig	Alg 2/Geom OR taken at the same time	10, 11, 12	Semester	Semester long course where students will have an understanding of how trigonometry is used in daily life and how it relates to other mathematical topics. Students will use trig to analyze parts of triangles. Graphs of trig functions, manipulating trig identities, and performing operations involving the unit circle are other components of the course.
Math	ACT Math Prep	Alg 1	10, 11, 12	Semester	This semester long course will go through the types of problems students will see on an ACT Math Test. The students will take practice tests and will delve deeper into problem areas found after those tests.



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PE	Coaching and officiating	N/A	10, 11, 12	Semester	Learning how to coach and officiate team sports while developing a coaching philosophy. You will also go over many leadership classes and develop your own coaching style that you will be able to use over the course of your coaching career.
PE	Fitness and Yoga	N/A	10, 11, 12	Semester	This is an introductory lifelong fitness class where you will learn the basics in both yoga and weightlifting. You will participate in both yoga and weightlifting on a daily basis. If you are looking to get your workout in during the school day, here is your chance!
Social Studies	Native American History	N/A	9, 10, 11, 12	Semester	A content survey of Native American History throughout the North American continent. Students will explore the content through multiple tools. The textbook used is First Peoples: A Documentary Survey of American Indian History. Additionally, local speakers will present a more focused discussion & oral history of Dakota life, culture, and language.
Social Studies	History and Hollywood	N/A	9, 10, 11, 12	Semester	This class looks at history through the Hollywood lens (no pun intended) and explains how Hollywood can sometimes exaggerate events or give accuracy and awareness to important details of the past. By analyzing portions of movies and documentaries we will research American History to global history from both past and current times.
Social Studies	Sociology	N/A	10, 11, 12	Semester	Sociology studies human social behavior by analyzing group, rather than individual, behaviors. In this class we will look at patterns in social relationships from a variety of sociological perspectives that we can then use to better understand the world around us and the events in our personal lives.
Social Studies	Psychology	N/A	10, 11, 12	Semester	Psychology is the scientific study of mental processes and behavior. The study of Psychology encompasses broad areas of research about human behavior, which will help you understand yourself and those around you better.
Social Studies	Economics	N/A	11, 12	Semester	This is an introductory course to Economics, where students will explore basic micro and macro-economic principles. Also included is macro-economic theory and policy, along with money, banking, and monetary policy. The course is designed to give students a basic understanding of key economic principles that will help them in micro and macro-economic classes in college.
Tech	Cyber Security - Network Technology	Intro to Tech, Programming I	11, 12	Semester	Students in the Cyber Security - Network Technologies course prepare for careers that involve network analysis, planning, and implementation, including design, installation, maintenance, and management of network systems. They will also learn the ethics, skills, and process behind different technology security careers.

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Tech	Computer Programming	Intro to Tech	9, 10, 11, 12	Semester	Computer Programming I introduces students to the fundamentals of computer programming. Students will learn to design, code, and test their own programs while applying mathematical concepts. Teachers introduce concepts and problem solving skills through a programming language such as C, C++, C#, Java, Python, or Visual Basic. Computer Programming II reviews and builds on the concepts introduced in Computer Programming I and introduces students to more complex data structures. Topics include sequential files, arrays, and classes.
Tech	Web Development	Intro to Tech	9, 10, 11, 12	Semester	Web Development I is a course designed to guide students in a project-based environment implementing web development techniques. Through the use of hypertext markup language (HTML5) coding, Cascading Style Sheets (CSS), and JavaScript students will plan, design, develop, deploy, and maintain website projects. Students will learn fundamentals for a career in web development as they complete projects and create their own website. Course Code=10201
Tech	Multimedia Design	Intro to Tech	9, 10, 11, 12	Semester	Multimedia Design gives students experience and knowledge in all forms of mixed media and content. Multimedia presentations combine text, graphics, animation, images and sound from a wide range of media, such as films, newspapers, magazines, online information, television, videos, streaming and electronic media-generated images. Students will learn how to select the appropriate medium for each element of the presentation and gauge the needs of clients and the intended audience. In addition to their general academic and technical knowledge and skills, students gain an understanding of career opportunities available in technology and what employers require to gain and maintain employment in these careers. Course Code=10203
Tech	Computer Hardware and Software - Help Desk	Intro to Tech	11, 12	Semester	The Computer Hardware & Software course will prepare students to become more knowledgeable about the integral components of a computer system. Topics covered in the class include individual hardware components, upgrading and troubleshooting a computer, installing operating systems, and configuring basic network services. The students will work at the Help Desk within the Tech Center. This course is run like an independent study.
Tech	Robotics	Intro to Tech	9, 10, 11, 12	Semester	This robotics course emphasizes the design, building, operation, application, and documentation of robotic systems. Students follow the engineering design process, apply basic programming skills, and explore how robots and automated systems are used in industry. Students will have an understanding of the historical and current uses of robots and automated systems; programmable circuits, interfacing both inputs and outputs; proficient ethical standards for engineering and technology professions; and testing of robots.

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World Languages	Dakota Language I	N/A	9, 10, 11, 12	Year long	This course is an introduction to the Dakota language, Dakota history, culture and way of life. Emphasis will be placed on the Dakota alphabet, kinship terms, numerical system, basic everyday vocabulary, and simple sentence structure. Added emphasis will be on everyday language survival skills – speaking the language. Writing will be required. Verbal presentation is mandatory.
World Languages	Dakota Language II	Pass Dakota Language I with C or better	10, 11, 12	Year long	This course is an introduction to the Dakota language, Dakota history, culture and way of life. Emphasis will be placed on the Dakota alphabet, kinship terms, numerical system, basic everyday vocabulary, and simple sentence structure. Added emphasis will be on everyday language survival skills – speaking the language. Writing will be required. Verbal presentation is mandatory.
World Languages	Spanish 1	N/A	9, 10, 11, 12	Year long	Students will learn how to read, write, listen to and speak the present tense of the Spanish language through the use of vocabulary and grammatical concepts. Students will also learn about the various cultures of those countries whose dominant language is Spanish.
World Languages	Spanish 2	C- or better in both semesters of Spanish 1	10, 11, 12	Year long	Students will learn how to read, write, listen to and speak the present and past tenses of the Spanish language through the use of vocabulary and grammatical concepts. Students will also learn about the various cultures of those countries whose dominant language is Spanish.
World Languages	Spanish 3	C- or better in both semesters of Spanish 2	11, 12	Year long	Students will learn how to read, write, listen to and speak the present, past and future tenses of the Spanish language through the use of vocabulary and grammatical concepts. Students will also learn about the various cultures of those countries whose dominant language is Spanish.
World Languages	Spanish 4	C- or better in both semesters of Spanish 3	12	Year long	Students will learn how to read, write, listen to and speak the present, past and future tenses of the Spanish language through the use of vocabulary and grammatical concepts. Students will also learn about the various cultures of those countries whose dominant language is Spanish.