

# **2017-2018 Course Book**

**Murray Community School District**

216 Sherman Street, Murray, IA 50174

Phone: (641) 447-2517

[www.murraycsd.org](http://www.murraycsd.org)

# Graduation Requirements

Students will need 26 credits to graduate. The requirements are:

English--4 credits (must include English I and English II)

Social Studies--3 credits (must include World and American History, Government, and Economics)

Mathematics--4 credits (must include Algebra I, Algebra II, and Geometry)

Science--3 credits (must include Physical science and Biology)

Electives--11 units (must include 2 units of P.E. unless waived)

Physical Education Exemption:

If a student grades 9-11 carries 7 classes per school year, the Physical Education requirement may be waived if the student is satisfying the required 120 minutes of activity per week rule.

If a student grade 12 carries 6 classes their senior year, the Physical Education requirement may be waived if the student is satisfying the required 120 minutes of activity per week rule.

**Any senior who does not meet the above requirements will not receive a diploma.**

# Courses

## 12104 **Accounting - Hollinger, Laura**

Class Length: full year

Minimum Grade Level: 9th grade

Accounting courses introduce and expand upon the fundamental accounting principles and procedures used in businesses. Course content typically includes the full accounting cycle, payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students may learn how to apply standard auditing principles and to prepare budgets and final reports. Calculators, electronic spreadsheets, or other automated tools are usually used. Advanced topics may include elementary principles of partnership and corporate accounting and the managerial uses of control systems and the accounting process.

## 01053 **Literature (Advanced English I) - Belden, Kathryn**

Class Length: full year

Minimum Grade Level: 9th grade

Weighted

Literature courses offer the opportunity for students to study and reflect upon the themes presented in the body of literature being presented. Students improve their critical-thinking skills as they determine the underlying assumptions and values within the reading selection and as they understand how the work reflects society's problems and culture. Oral discussion is an integral part of literature courses, and written compositions are often required. Literature courses may survey representative works, reflect a particular genre or a specific theme, or survey works of a particular time or people.

## 01058 **World Literature (Advanced English II) - Grove, Jordan**

Class Length: full year

Minimum Grade Level: 10th grade

Weighted

World Literature courses use representative literature selections from ancient and/or modern times from countries around the world. Students improve their critical-thinking skills as they comprehend the diversity of literary traditions and the influences of those traditions. Oral discussion is an integral part of literature courses, and written compositions are often required.

## 01054 **American Literature (Advanced English III) - Belden, Kathryn**

Class Length: full year

Minimum Grade Level: 11th grade

Weighted

American Literature courses focus upon commonly known American authors and their work. Students improve their critical-thinking skills as they determine the underlying assumptions and values within the selected works and as they understand how the literature reflects the society of the time. Oral discussion is an integral part of literature courses, and written compositions are often required.

## 01056 **British Literature (Advanced English IV) - Grove, Jordon**

Class Length: full year

Minimum Grade Level: 12th grade

Weighted

British Literature courses may provide a survey of British literature or may focus on a selected timeframe of England's history. Students improve their critical-thinking skills as they determine the underlying assumptions and values within the selected works and as they understand how the literature reflects the society of the time. Oral discussion is an integral part of literature courses, and written compositions are often required.

## 18401 **Agriculture Mechanics/Equipment/Structures (Welding) - Clarke, Taylorann**

Class Length: year

Minimum Grade Level:

Agriculture Mechanics/Equipment/Structures courses provide students with the skills and knowledge that are specifically applicable to the tools and equipment used in the agricultural industry. While learning to apply basic industrial knowledge and skills (engine mechanics, power systems, welding, and carpentry, among others), students may explore a broad range of topics, including the operation, mechanics, and care of farm tools and machines; the construction and repair of structures integral to farm operations; a study of electricity and power principles; and safety procedures.

*First semester students will complete safety tests and go through instructor demonstrations. Students will then be taught proper welding (arc, mig, oxy-ace torch, plasma) procedures and be required to complete a list of certain welds before they are able to start projects of their choice within the instructor's guidelines. Based on student interest and as time allows units on auto mechanics, woodworking and electricity may also be added to the curriculum.*

## 18002 **Agriculture—Comprehensive Agriculture (Ag I, II, III, IV) Clark, Taylorann**

Comprehensive courses cover a wide range of agricultural topics, including plant and animal science, production, and processing; agricultural mechanics, including tool and machine operation and repair; construction and repair of farm structures; business operations and management; and the careers available in the agricultural industry. They may also include topics such as chemical and soil science, ecology, agricultural marketing, and veterinary science.

## **Agriculture I - Clark, Taylorann**

Intro to Agriculture, Food and Natural Resources CASE

Class Length: full year

Minimum Grade Level: 9th Grade

*The AFNR course is intended to serve as the introductory course within the CASE Program of Study. The course will introduce students to the world of agriculture, the pathways they may pursue, and the science, mathematics, reading, and writing components they will use within and beyond high school. Woven throughout the course are activities to develop and improve employability skills of students through practical applications. The course is structured to enable all students to have a variety of experiences that will provide an overview of the fields of agricultural science and natural resources so that students may continue through a sequence of courses through high school.*

*Students participating in the Introduction to Agriculture, Food, and Natural Resources course will experience exciting "hands-on" activities, projects, and problems. Student experiences will involve the study of communication, the science of agriculture, plants, animals, natural resources, and agricultural mechanics. In*

*addition, students will understand specific connections between their lessons and Supervised Agricultural Experience and FFA components that are important for the development of an informed agricultural education student.*

## **Agriculture II - Clark, Taylorann**

Principles of Agricultural Science—Plant CASE

Class Length: full year

Minimum Grade Level: 10th Grade

Prerequisites: Agriculture I

*The course is structured to enable all students to have a variety of experiences in the field of agricultural science with a foundation in plant science so that students may continue through a sequence of courses through high school. Students will work in teams, exploring hands-on projects and activities, to learn characteristics of plant science and work on major projects and problems similar to those that plant science specialists, such as horticulturists, agronomists, greenhouse and nursery managers and producers, and plant research specialists face in their careers.*

*In addition, students will understand specific connections between the Plant Science lessons and Supervised Agricultural Experience, FFA, and Lifeknowledge components that are important for the development of an informed agricultural education student. Students will investigate, experiment and learn about documenting a project, solving problems, and communication their solutions to their peers and members of the professional community.*

## **Agriculture III (Advanced Animal Science) - Clarke, Taylorann**

Class Length: full year

Minimum Grade Level: 11th Grade

Prerequisites: Agriculture II

*Students in this course will study advanced livestock topics including: Digestion, Nutrition, Breeding/Reproduction, Meat Science, Animal Health, Genetics, and Animal Behavior and Environments. Students will explore careers in Animal Science and seek opportunities to expand their knowledge.*

## **Agriculture IV - Clark, Taylorann**

Class Length: full year

Minimum Grade Level: 12th Grade

Prerequisites: Agriculture III

*While enrolled in this course, students will study business aspects of the agriculture industry. Students will be taught a unit covering sales as it relates to agriculture and be required to research an agricultural occupation which they be interested in. To prepare for the future, students will prepare a career portfolio with resume, cover letter, mock job application and complete a mock interview.*

## **02052 Algebra I - Norman, Danielle**

Class Length: full year

Minimum Grade Level: 9th grade

Algebra I courses include the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic equations.

*Students will learn to solve multi-step equations, solve and graph single and multi-step inequalities, write and graph functions, and scatter plots. They will also find intercepts and slopes of linear functions, use slope-intercept form and point slope form, and solve systems of equations and inequalities by graphing, substitution, and elimination. This course will also cover operations with polynomials, factoring, graphing and solving quadratic equations, exponential functions, and data analysis and probability. The Mathematical Practice Standards apply throughout each course and makes use of their ability to make sense of problem situations.*

### **02056 Algebra II - Oswald, Mindy**

Class Length: full year

Minimum Grade Level: 9th grade

Prerequisite: Algebra I

Algebra II course topics typically include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents.

*Algebra II is an in-depth study of functions, including transformations, quadratic, polynomial, exponential, logarithmic, rational, radical, and piecewise functions. Students work closely with the expressions that define the functions, and continue to expand their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards apply throughout each course and makes use of their ability to make sense of problem situations.*

### **01156 Applied English and Communications (Speech) - Grove, Jordon**

Class Length: full year

Minimum Grade Level: 9th grade

Applied English and Communications courses teach students communication skills—reading, writing, listening, speaking—concentrating on “real-world” applications. These courses usually emphasize the practical application of communication as a business tool—using technical reports and manuals, business letters, resumes, and applications as examples—rather than emphasize language arts skills as applied to scholarly and literary materials.

*This course is broken into several parts: speech writing and delivery, reading plays, playwriting and analysis, creative writing and performance. Students will study the meaning of communication and will study, prepare, research, and perform a variety of speeches including: story telling, expository address, persuasive, impromptu, extemporaneous speaking, after dinner speaking, eulogy, special occasion speeches and intro to two kinds of debate. The emphasis of this class is on the actual process of speaking. Students will be expected to show advancements in their ability to speak. Students will create a portfolio of their work and will analyze their progress through the semester. Students will study and read a variety of dramas, and will complete creative activities that will force the student to think critically about drama.*

### **01067 Assisted Reading - Jeter, Kayti**

Class Length: full year

Minimum Grade Level: 9th grade

Assisted Reading courses offer students the opportunity to focus on their reading skills. Assistance is targeted to students' particular weaknesses and is designed to bring students' reading comprehension up to the desired level or to develop strategies to read more efficiently.

*Students are given in-tense reading instruction using research-based strategies for comprehension, vocabulary enrichment and fluency. Students will read independently at times and in small groups aloud. Readings are from a choice of novels selected around the unit topic. Students will meet with peer groups for discussion bi-weekly for comprehension and investigation for deeper meaning. Writing is used as a response mechanism to reading passages in both short informal passages in journals as well as formal essay. Every two to three weeks a set of vocabulary and new reading skills are introduced using sources from fiction, nonfiction and informational text related to the unit topic. Skills are practiced using a gradual release system using designed reading passages and natural reading.*

### **05101 General Band (Band) - McCoy, Simon**

Class Length: full year

Minimum Grade Level: 9th grade

Prerequisites: Jr. High band or demonstrate ability to play an instrument at the high school level  
General Band courses develop students' technique for playing brass, woodwind, and percussion instruments and cover a variety of non-specific band literature styles (concert, marching, orchestral, and modern styles).

*The high school instrumental music program offers performance opportunities in concert band, marching band and pep band. Students will become musically literate both melodically and rhythmically and will gain an understanding of various styles of music. Students will develop responsibility, mental discipline, teamwork, self-esteem, and an enjoyment and lifelong appreciation of music.*

### **03051 Biology - Hitz, Andy**

Class Length: full year

Minimum Grade Level: 9th grade

Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy.

*Students will gain an understanding of the basic features of life common to all living things, such as growth and development, maintenance and repair, reproduction and organization. The students will display good citizenship by using lab materials and equipment in the prescribed manner and treating each other with respect and cooperation.*

### **12052 Business Management - Laura Hollinger**

Class Length: Semester

Minimum Grade Level: 10th grade

Business Management courses acquaint students with management opportunities and effective human relations. These courses provide students with the skills to perform planning, staffing, financing, and controlling functions within a business. In addition, they usually provide a macro-level study of the business world, including business structure and finance, and the interconnections among industry, government, and the global economy. The course may also emphasize problem-based, real world applications of business concepts and use accounting concepts to formulate, analyze, and evaluate business decisions.

*Students will gain a foundation in the various areas of business management including product, human resource, financial and marketing management.*

### **02121 Calculus - Oswald, Mindy**

Class Length: Full year

Minimum Grade Level: 11th grade

Weighted

Calculus courses include the study of limits, derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of precalculus topics (some combination of trigonometry, elementary functions, analytic geometry, and math analysis).

*The major concepts of calculus include limits, derivatives, and integrals of functions, including exponential and logarithmic functions. These are studied in-depth and applied to real-world application problems. In addition, the course also investigates probability and series. The Mathematical Practice Standards apply throughout each course and makes use of their ability to make sense of problem situations. To be successful, Pre-Calculus is a recommended prerequisite.*

### **03101 Chemistry - Hitz, Andy**

Class Length: full year

Minimum Grade Level: 11th grade

Weighted

Prerequisites: Physical Science and Biology

Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied.

*An in-depth study of the atom and its properties, behaviors and structure. Students will learn how an atom combines, makes compounds, changes form and interacts with other compounds--including the physics behind all these processes.*

### **05110 Chorus - Calahan, John**

Class Length: full year

Minimum Grade Level: 9th grade

Prerequisites: Jr. High Choir or demonstrate an enjoyment of music and an interest in singing.

Chorus courses provide the opportunity to sing a variety of choral literature styles for men's and/or women's voices and are designed to develop vocal techniques and the ability to sing parts.

*The high school choir program is open to students in grades 9 -12 who enjoy singing and want to learn more about music. Students will perform literature of both the secular and sacred text. The choir will perform in three concerts during the year and at a choir festival in the fall. Attendance at these performances is required and counts as a major percent of your grade.*

### **01103 Composition - Grove, Jordon**

Class Length: semester

Minimum Grade Level: 11th grade



Composition courses focus on students' writing skills and develop their ability to compose different types of papers for a range of purposes and audiences. These courses enable students to explore and practice descriptive, narrative, persuasive, or expository styles as they write paragraphs, essays, letters, applications, formal documented papers, or technical reports. Although composition courses may present some opportunities for creative writing, their focus usually remains on nonfiction, scholarly, or formal writing.

*This course focuses on developing and fine-tuning effective writing skills through reading and modeling after selections in American Literature. Students will learn the basic building blocks of good writing including: brainstorming, outlining, structuring, organizing, using research/evidence, establishing a strong voice, and developing bold thesis statements. The course encourages peer-review and feedback among students. Composition also includes a rigorous focus on grammar and punctuation.*

## **01149 Composition—Other**

### **Publications I - Brown, Jeromy**

Class Length: full year

Minimum Grade Level: 10th Grade

*Students will learn introductory publishing skills while writing articles for the school's website and producing the school's yearbook. Students will learn how to conduct interviews, write news stories, take pictures, and produce and edit videos.*

### **Publications II - Brown, Jeromy**

Class Length: full year

Minimum Grade Level: 10th Grade

Prerequisites: Publications I

*Second year Publications students will be given larger roles in the decision making process of both yearbook and producing the school's website. Publications II students will mentor Publications I students while working more independently on their own writing, photography, and video projects.*

### **Publications III - Brown, Jeromy**

Class Length: full year

Minimum Grade Level: 11th Grade

Prerequisites: Publications II

Third year Publications students will be given larger roles in the editorial and managerial process of both yearbook and producing the school's website. Students interested will be able to "apply" for positions such as Managing Editor, Co-Editors, Photo Editor, Design Editor, and Section Editor. All students will be responsible to for photography and reporting.

### **10004 Computer Applications - Hollinger, Laura**

Class Length: full year

Minimum Grade Level: 9th grade

In Computer Applications courses, students acquire knowledge of and experience in the proper and efficient use of previously written software packages. These courses explore a wide range of applications, including (but not limited to) word-processing, spreadsheet, graphics, and database programs, and they may also cover the use of electronic mail and desktop publishing.

*Students will develop keyboarding skills using touch-typing. Primary attention will be placed on proper technique. Beginning word processing skills, including proper report and letter formatting, will be developed. Students will continue mastering proper keyboarding techniques while applying more advanced formatting skills to reports, letters and tables. Students will also learn how to create an electronic presentation and spreadsheets.*

### **10001 Introduction to Computers (Computer Technology) - Hollinger, Laura**

Class Length: full year

Minimum Grade Level: 11th grade

Introduction to Computer courses introduce students to computers and peripheral devices, the functions and uses of computers, the language used in the computer industry, possible applications of computers, and occupations related to computer hardware and software. These courses typically explore legal and ethical issues associated with computer use, as well as how computers influence modern society. Students may also be required to perform some computer operations.

*Computer Tech will introduce students to computers and peripheral devices, the functions and uses of computers, the language used in the computer industry, possible 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 may also be required to perform some computer operations and repairs.*

### **02157 Consumer Math - Norman, Danielle**

Class Length: full

Minimum Grade Level: 11th grade

Consumer Math courses reinforce general math topics (such as arithmetic using rational numbers, measurement, ratio and proportion, and basic statistics) and apply these skills to consumer problems and situations.

Applications typically include budgeting, taxation, credit, banking services, insurance, buying and selling products and services, home and/or car ownership and rental, managing personal income, and investment.

*Consumer Math is math that students will probably use in real world situations, such as: pay, income, sales and property taxes, banking (checking and savings), investments, credit cards, borrowing money, and buying (cars, houses, life and health insurance).*

### **04106 Contemporary U.S. Issues - Wookey, Darin**

Class Length: semester

Minimum Grade Level: 11th grade

Contemporary U.S. Issues courses study the political, economic, and social issues facing the United States, with or without an emphasis on state and local issues. These courses may focus on current issues or may examine selected issues that span throughout the 20th century to the present.

*Students will bring world, national or local news articles daily to discuss in class. The articles must be controversial and debatable. The idea is that students will learn how to debate.*

### **05154 Creative Art—Comprehensive Creative Art**

Comprehensive courses provide students with the knowledge and opportunity to explore an art form and to create individual works of art. These courses may also provide a discussion and exploration of career

opportunities in the art world. Initial courses cover the language, materials, and processes of a particular art form and the design elements and principles supporting a work of art. As students advance and become more adept, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic styles. Although Creative Art courses focus on creation, they may also include the study of major artists, art movements, and styles.

### **Art I - Jeter, Kayti**

Class Length: full year

Minimum Grade Level: 9th Grade

*Students will learn about and identify the principles and elements of design. They will apply this learning in a variety of projects both 2D and 3D. Students will learn basic skills on how to use a variety of media and tools. Students will learn how to critique works of art by masters as well as their own. Students will investigate artistic movements and research theories behind concepts for visual interpretation. Students will create and keep a sketchbook for on-going skills practice.*

### **Art II - Jeter, Kayti**

Class Length: full year

Minimum Grade Level: 10th Grade

Prerequisites: Art I

*Students will take a deeper investigative approach in researching the theories behind specific artistic works. They will apply these ideas to develop their own artwork. Students will identify strengths and interests in a few limited genres of art production and gain more specific skills in using the materials and tools necessary to complete a work of art for each genre. Students will work on a group project and learn the various functions art serves in society. Students will critique works of art by masters as well as their own. Students will create and keep a sketchbook for on-going practice.*

### **11152 Desktop Publishing - Hollinger, Laura**

Class Length: semester

Minimum Grade Level: 11th grade

Desktop Publishing courses integrate the knowledge and skills learning in word processing with the concepts, procedures and application of desktop publishing. Students learn to format, create and proofread brochures, programs, newsletters, web pages, presentations and manuscripts.

*Students will find desktop publishing helpful in the production of handouts, brochures, and other documents for use in all aspects of their life. Students will learn to make appropriate desktop publishing choices quickly and easily so they can create documents that are more interesting to read because they are more attractive.*

### **04201 Economics - Wookey, Darin**

Class Length: semester

Minimum Grade Level: 12th grade

Economics courses provide students with an overview of economics with primary emphasis on the principles of microeconomics and the U.S. economic system. These courses may also cover topics such as principles of macroeconomics, international economics, and comparative economics. Economic principles may be presented in formal theoretical contexts, applied contexts, or both.

*Students will gather a basic understanding of economics and why things happen the way they do. Specifically, students will learn about supply and demand and how they react to each other.*

### **01001 English/Language Arts I - Belden, Kathryn**

Class Length: full year

Minimum Grade Level: 9th grade

English/Language Arts I (9th grade) courses build upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language use: reading, writing, speaking, and listening. Typically, these courses introduce and define various genres of literature, with writing exercises often linked to reading selections.

*Students in 9th grade will build from their grammatical foundation and explore various types of literature from short stories to poetry and Shakespeare. Greater emphasis will be put on writing longer and more analytical texts such as research papers.*

### **01002 English/Language Arts II - Grove, Jordan**

Class Length: full year

Minimum Grade Level; 10th grade

Prerequisites: English I

English/Language Arts II (10th grade) courses usually offer a balanced focus on composition and literature. Typically, students learn about the alternate aims and audiences of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message.

*This course focuses upon a variety of literary types and genres. We will draw from American Literature, World Literature, and British Literatures. These all include short stories, poems, plays and novels. Particular emphasis is put on exploring the concept of identity through literature. The course also involves analytical writing, conversational dialogue, and creative writing projects as responses to the selections we are reading. Students will be learning how to develop a thesis statement and use evidence from the selection to support student opinions. Students will write a research paper in this course.*

### **01003 English/Language Arts III - Belden, Kathryn**

Class Length: full year

Minimum Grade Level: 11th grade

Prerequisites: English II

English/Language Arts III (11th grade) courses continue to develop students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature, which often form the backbone of the

writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses.

*This college prep course is designed to assist the student to go beyond the basics of literature and begin to analyze the elements of literature. The course will focus mainly on American authors. This class is meant to put literature in an historical setting and give students a chance to see how literature shapes the world. They will analyze how our country was created and gain different perspectives of the world. We will study short stories, poems, plays, novels, and short historical discussion. The course will also be involved in establishing strong writing skills that use what we are reading in class as a basis for writing. THIS COURSE IS A COLLEGE PREP COURSE.*

### **01004 English/Language Arts IV- Grove, Jordan**

Class Length: full year

Minimum Grade Level: 12th grade

Prerequisites: English III

English/Language Arts IV (12th grade) courses blend composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature, continuing to develop their language arts skills. Typically, students primarily write multi-paragraph essays, but they may also write one or more major research papers.

### **08005 Fitness/Conditioning - Fulton, Taylor**

Class Length: full year

Minimum Grade Level: 9th grade

Activities Fitness/Conditioning Activities courses emphasize conditioning activities that help develop muscular strength, flexibility, and cardiovascular fitness.

*Personal Fitness is an introductory course to health and movement history and practice. Students journey through wellness history from theory to practice to obtain a better understanding of lifetime wellness through a variety of subject matter and movement disciplines. The course covers; Beginner Yoga, Cardiovascular Wellness, Nutrition, Flexibility, Body Weight Training, Posture and Gait, Relaxation and Stress Management, and Contemporary Issues in Health and Movement Theory.*

### **Foreign Language - Iowa Online Learning**

Class Length: full year

### **02072 Geometry - Oswald, Mindy**

Class Length: full year

Minimum Grade Level: 9th grade

Prerequisites: Algebra 1 and Algebra II

Geometry courses, emphasizing an abstract, formal approach to the study of geometry, typically include topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.

*Geometry students gain understanding in transformations of shapes, reasoning and proof, triangle congruence, properties of triangles, polygons and quadrilaterals, similarity and extensions of perimeter, circumference and area of various shapes. The Mathematical Practice Standards apply throughout each course and makes use of their ability to make sense of problem situations.*

### **05108 Guitar - Calahan, John**

Class Length: semester

Minimum Grade Level: 9th grade

Guitar courses introduce students to the fundamentals of music and guitar-playing techniques, such as strumming and chords. These courses may also include more advanced guitar playing techniques.

*In this class, students will learn the fundamentals of guitar playing and associated music theory. Topics covered include reading, playing, and writing musical notation, chord symbols, and tablature; guitar maintenance; music theory as it relates to pop, folk, rock, and jazz music; and history of the instrument. The course is designed for beginning players.*

### **08051 Health Education - Fulton, Taylor**

Class Length: full year

Minimum Grade Level: 9th grade

Topics covered within Health Education courses may vary widely, but typically include personal health (nutrition, mental health and stress management, drug/alcohol abuse prevention, disease prevention, and first aid) and consumer health issues. The courses may also include brief studies of environmental health, personal development, and/or community resources.

*Students are provided a foundation of knowledge and health skills that will have enduring value for a lifetime. Included are decision-making, goal-setting and stress management skills. This program explores issues that deal with self-esteem, understanding emotions, communication skills, dealing with peer pressure, and developing refusal skills.*

### **14002 Health Care Occupations—Comprehensive Health Care Occupation**

Comprehensive courses provide students with an orientation to the healthcare industry and help refine their health care-related knowledge and skills. Topics covered usually include (but are not limited to) an overview of health care delivery; patient care, including assessment of vital signs, body mechanics, and diet; anatomy and physiology; identification and use of medical equipment and supplies; medical terminology; hygiene and disease prevention; first aid and CPR procedures; laboratory procedures; and ethical and legal responsibilities.

## **Health Care Occupations I - Klein, Mary**

Class Length: full year

Minimum Grade Level: 11th Grade

The textbook “Diversified Health Occupations” and accompanying workbook provide some of the basic core knowledge and skills that can be used in several different health-related fields. Students will become accredited by the American Heart Association in First Aid and Cardiopulmonary Resuscitation. Students will take a 75-hour Nurse Aide Training Program, which includes 30 hours of actual “hands-on” experience in a qualified nursing facility. Several field trips are also included throughout the year.

## **Health Care Occupations II - Klein, Mary**

Class Length: full year

Minimum Grade Level: 11th Grade

This class is a continuation of and accompanies the Health Occupations I class. Medical terminology is included. The various required skills of the First Aid, CPR, and Nurse Aide Training Program will be practiced. After the completion (usually May) of the Nurse Aide Training Program the students will take the written and practical competency examination required by the state for certification at Southwestern Community College. Upon passing, students are qualified nurse aides, eligible to work in health care facilities.

## **22997 Miscellaneous—Independent Study Miscellaneous (Honors) - Hollinger, Laura**

Class Length: full year

Independent Study courses, typically organized as a mentorship with a teacher or outside professional, enable students to conduct investigations related to their field(s) of interest. Note: if the particular subject area is known, use the code associated with the Independent Study course within that subject area. This course is an independent study course that enables qualifying students to conduct investigations related to their field(s) of interest. Students must have a 3.5 GPA and a teacher recommendation or administrative approval to be eligible for this course.

## **12051 Introductory Business - Hollinger, Laura**

Class Length: full year

Minimum Grade Level: 9th grade

Introductory Business courses survey an array of topics and concepts related to the field of business. These courses introduce business concepts such as banking and finance, the role of government in business, consumerism, credit, investment, and management. They usually provide a brief overview of the American economic system and corporate organization. Introductory Business courses may also expose students to the varied opportunities in secretarial, accounting, 146 management, and related fields.

*General Business will introduce you to the world of business and help prepare you for the economic roles of consumer, worker, and citizen. It will serve as a background for other business courses in high school and in college. This course will help prepare students for future employment.*

## 01061 **Literature of a Genre**

Prerequisite: English I

These courses have the same aim as general literature courses (to improve students' language arts and critical-thinking skills), focusing on one or several genres, such as poetry, essay, biography, short story, drama, and so on. Students determine the underlying assumptions and values within the selected works and also examine the structure, techniques, and intentions of the genre being studied. Oral discussion is an integral part of these genre-oriented courses, and written compositions are often required.

## **Mythology - Belden, Kathryn**

Class Length: Full year

Minimum Grade Level: 10th grade

## **Young Adult Literature -Grove, Jordan**

Class Length: semester

Minimum Grade Level: 10th grade

## Mat 102 **Math for Liberal Arts-Oswald, Mindy**

Class Length: semester

Minimum Grade Level: 11th grade

(Prerequisite: MAT 102 Intermediate Algebra.)

This course provides a broad mathematical knowledge to calculate, analyze, and solve day-to-day problems. Topics include number theory and the real number system, algebra, graph and data interpretation, calculator usage, mathematical reasoning process, problem solving techniques, probability and statistics, geometry, and consumer mathematics.

## 02994 **Mathematics Proficiency Development (Math PD) - Norman, Danielle**

Class Length: full year

Minimum Grade Level: 9th grade

Mathematics Proficiency Development courses are designed to assist students in acquiring the skills necessary to pass proficiency examinations.

*Students are given guided practice based on various math topics. These topics are those that the students have found challenging on the MAP tests, and any others discovered throughout the year. The topics will focus on number and operations, algebra, geometry and measurement, and data analysis and probability. In the class the students will use a wide variety of resources to study their topic including, but not limited to: activities, Khan Academy, and journal entries.*



## 14154 **Medical Terminology - Klein, Mary**

Class Length: full year

Minimum Grade Level: 12th grade

In Medical Terminology courses, students learn how to identify medical terms by analyzing their components. These courses emphasize defining medical prefixes, root words, suffixes, and abbreviations. The primary focus is on developing both oral and written skills in the language used to communicate within health care professions.

*This course will help students gain the knowledge they need to help communicate clearly with other health care team members. This proven approach to learning medical terms starts with a foundation of word parts, prefixes, suffixes, and word roots--then builds words by combining the parts. Using the body-system approach, this text includes a brief review of anatomic terminology that will help students to recognize and define new medical terms. This class may be taken by itself or as an excellent accompaniment to Health Care Occupations I and II which may be taken before or after those subjects.*

## 05147 **Music—Independent Study (Media Production) - Calahan, John**

Class Length: full year

Minimum Grade Level: 9th grade

Music—Independent Study courses, often conducted with instructors, professional musicians, or voice coaches as mentors, enable students to explore music-related topics. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular form or style, to explore a topic in greater detail, or to develop more advanced skills.

*Topics include:*

*Composing and remixing electronic music*

*Assembling, using, and troubleshooting sound equipment*

*Recording and production*

*Music theory*

## 05113 **Music Theory - McCoy, Simon**

Class Length: full year

Minimum Grade Level: 9th grade

Music Theory courses provide students with an understanding of the fundamentals of music and include one or more of the following topics: composition, arrangement, analysis, aural development, and sight reading.

*Music Theory examines the various parts, or elements, of music—melody, harmony, rhythm and timbre, texture, form, and the ways in which these individual elements combine and interact to create a piece of music. This course is an advanced course in the fundamentals of music which involve learning major and minor scales, key signatures, intervals, triads and harmony. It also includes the study of time signatures, various rhythms, and values through rhythmic and melodic dictations.*

### **08001 Physical Education - Fulton, Taylor**

Class Length: full year

Minimum Grade Level: 9th grade

Physical Education courses provide students with knowledge, experience, and an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities.

*Students are provided a background in different games and sports that will lead to lifetime sport activities. Students will learn the value of hard work and fair play.*

### **03159 Physical Science - Hitz, Andy**

Class Length: full year

Minimum Grade Level: 9th grade

Physical Science courses involve study of the structures and states of matter. Typically (but not always) offered as introductory survey courses, they may include such topics as forms of energy, wave phenomenon, electromagnetism, and physical and chemical interactions.

*An overview of topics in Chemistry and Physics. Students will learn Newton's Law and other principles of motion. They will also learn about the atom's structure, properties and interactions with other atoms.*

### **03151 Physics - Hitz, Andy**

Class Length: full year

Minimum Grade Level: 11th grade

Weighted

Physics courses involve the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena.

*A comprehensive study of all the principles of motion. Including a look at sound, light, electricity and heat.*

### **18051 Plant Production/Science - Clark, Taylorann**

Class Length: full year

Minimum Grade Level: 9th grade

Plant Production/Science courses provide knowledge about the propagation of plants for food and fiber. These courses may cover such topics as soil science, irrigation, pest and weed control, food and fiber

processing, and farm operations. They may also cover the knowledge and skills needed to produce all types of crops or may emphasize a particular area of the agricultural industry.

*Plant Production exposes students to the world of plant and soil science and related career options. Students will experience various plant science concepts through “hands-on” activities, projects, and problems, individually or as part of a group. Students will learn how to apply scientific knowledge related to plant science and will utilize scientific inquiry processes to plan, implement, and grow plants effectively for production. Students will discover the value of plant production and its impact on the individual, the local, and the global economy. In the laboratory settings, students will be given the opportunity to use new and emerging technology. Students will work on major projects and solve problems similar to those that plant science specialists, such as horticulturalists, agronomists, and greenhouse managers face in their respective careers. This course is based upon the Curriculum for Agriculture Science Education (CASE) curriculum. This course satisfies the Next Generation Science Standards for components of Physical Science, Life Science, Earth and Space Science, and Engineering, Technology, and Applications of Science standards for high school students. This course also satisfies many Agriculture, Food, and Natural Resources standards.*

### **02110 Pre-Calculus - Oswald, Mindy**

Class Length: full year

Minimum Grade Level: 11th grade

Prerequisites: Algebra I, Geometry, Advanced Algebra and Trigonometry

Pre-Calculus courses combine the study of Trigonometry, Elementary Functions, Analytic Geometry, and Math Analysis topics as preparation for calculus. Topics typically include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity.

*Pre-Calculus emphasises a comprehensive coverage of various functions, their graphs, and end behaviors and limits, including exponential and logarithmic functions, analytic geometry and conic sections, polar coordinates and complex numbers, probability, and the unit circle. The Mathematical Practice Standards apply throughout each course and makes use of their ability to make sense of problem situations.*

### **03153 Principles of Technology (Robotics Lab) - Hitz, Andy**

Class Length: semester

Minimum Grade Level: 10th grade

Principles of Technology courses focus on the study of the forces and laws of nature and their application to modern technology. Equilibrium, motion, momentum, energy conversion, electromagnetism, and optical phenomena are presented in the context of current, real-world applications. Demonstrations, math labs, and applied laboratory experiments are an integral part of the Principles of Technology curriculum. These courses enable students to gain a solid foundation for careers in electronics, robotics, telecommunications, and other technological fields.

*Study of modern technology and engineering through labs and projects, with application of science concepts including equilibrium, motion, momentum, energy conversion, electromagnetism, waves and optics. Recommended for students looking at careers in mechanical, technological (electronics/ robotics) or engineering fields.*

### **04254 Psychology 1 and Psychology 2 -Williams, Cynthia**

Class Length: semester

Minimum Grade Level: 11th Grade

Students will survey the major principles of psychology. This includes but isn't limited to human development, personality, abnormal behavior, social psychology, feelings and emotions, experimental, altered states of awareness, sleep and dreams. Students will learn to treat each other with trust and respect. Must have Psych 1 to be able to enroll in Psych 2.

### **01105 Research/Technical Writing - Belden, Kathryn**

Class Length: semester

Minimum Grade Level: 9th grade

Research/Technical Writing classes prepare students to write research papers and/or technical reports. These classes emphasize researching (primary and secondary sources), organizing (material, thoughts, and arguments), and writing in a persuasive or technical style.

### **12163 Sports and Entertainment Marketing - Hollinger, Laura**

Class Length: semester

Minimum Grade Level: 9th grade

Sports and Entertainment Marketing courses introduce students to and help them refine marketing and management functions and tasks that can be applied in amateur or professional sports or sporting events, entertainment or entertainment events, and the sales or rental of supplies and equipment.

### **Mat 156 Statistics-Oswald, Mindy**

Class Length: semester

Minimum Grade Level: 11th grade

(Prerequisite: Recommended COMPASS/ ACCUPLACER score or MAT 101 Intermediate Algebra.)

Statistics is a non-calculus based course designed to lay a foundation which will enable students to understand statistical thinking and apply basic statistical techniques. The qualitative and quantitative study in statistics will be useful for students pursuing majors in a wide variety of disciplines: psychology, sociology, business, economics, physical science, biological science, education, engineering, journalism, and career and technical programs.

### **04107 U.S. Ethnic Studies - Wookey, Darin**

Class Length: full year

Minimum Grade Level: 9th grade

U.S. Ethnic courses examine the history, politics, economics, society, and/or culture of one or more of the racial/ethnic groups in the United States. These courses may focus primarily on the history of an individual racial/ethnic group or may take a more comprehensive approach to studying the contemporary issues affecting racial/ethnic groups overall.

*The class will discuss the history of Asian, African American, Native American and Latino cultures and how they have affected American History.*

### **04151 U.S. Government—Comprehensive - Wookey, Darin**

Class Length: semester

Minimum Grade Level: 12th grade

U.S. Government—Comprehensive courses provide an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. These courses may examine the structure and function of state and local governments and may cover certain economic and legal topics.

*Students will gather a basic understanding of our government system. They will know how congress and the president must work together and how our local government impacts their daily lives.*

### **04101 U.S. History—Comprehensive - Wookey, Darin**

Class Length: full year

Minimum Grade Level: 11th grade

U.S. History—Comprehensive courses provide students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. These courses typically include a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement.

*From the Industrial Revolution to the present. Students will pick up where they left off in 8th grade and continue on.*

### **08009 Weight Training - Fulton, Taylor**

Class Length: full year

Minimum Grade Level: 9th grade

Weight Training courses help students develop knowledge and skills with free weights and universal stations while emphasizing safety and proper body positioning; they may include other components such as anatomy and conditioning.

*Weight Training is a moderate level physical education course focused on building strength and or body morphing through physical training. Students will gain an in depth understanding of weight training history, safety, and practice, while learning to set realistic goals and objectives as well as designing and utilizing personal workout regimens.*

### 04051 **World History—Overview - Wookey, Darin**

Class Length: semester

Minimum Grade Level: 10th grade

World History—Overview courses provide students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural developments. World History—Overview courses may include geographical studies, but often these components are not as explicitly taught as geography.

### **Post-Secondary Enrollment Options**

Elective Half-Year Course

Grade Level: 11, 12

Students may register for classes at Southwestern Community College. The school will pay tuition for classes not available at Murray High School. The student must make application to the high school principal for admission to these classes. The students will be responsible for providing their own transportation. Successful completion of classes is required. The student will receive both college credit and high school credit for these classes.

### **Special Education Curriculum**

Students who require special education are offered individually designed programs consisting of special interventions to meet the unique needs of challenged students. These programs are designed to provide the least restrictive intervention as outlined by a diagnostic-educational team, which includes the parents, and is defined in each pupil’s Individual Educational Program.

The local education agency, in conjunction with the Area Education agency, shall ensure that a continuum of services are available or shall be made available to the extent necessary to implement the IEP for each eligible individual.

The continuum of services is:

General Class, no support	General class, support services
---------------------------	---------------------------------

Resource Teaching Program (RTP), minimum amount of time	Resource Teaching Program (RTP), maximum amount of time
Special Class with Integration (SCIN)	Self-Contained Special Class with little integration
Self-Contained	Hospital/Homebound
Residential	

## Guidance and Counseling Services

Guidance and Counseling services are an integral part of each school's education program. The Murray Community School District is currently utilizing a curriculum which is developmental in design and includes activities which are presented sequentially, based on the child's current level of development. The counselor maintains an educational and vocational library for students to use in exploration of careers and colleges. The counselor is available to help students explore career opportunities and the qualifications required for certain vocations. The guidance program includes:

- 1) Guidance curriculum--Large group guidance activities composed of the following:
  - a) Career planning and exploration
  - b) Knowledge of self and others
  - c) Educational/vocational development
  - d) Drug and alcohol abuse education
  - e) Communication and listening skills
- 2) Individual Planning--These activities help students plan, monitor and manage their own learning, as well as plan their personal career.
  - a) Assessment of student, class and building needs
  - b) Planning for lessons
  - c) Planning for special programs, such as Red Ribbon Week or workshops by talent search presenters
- 3) Responsive Services--These are services that meet the immediate needs of students.
  - a) Consultation
  - b) Personal Counseling
  - c) Consultation with teachers
  - d) Referral
  - e) At-risk counseling
- 4) System Support--This area consists of management activities which establish, maintain and enhance the total guidance program.

- a) Professional development
- b) Staff and community relations
- c) Consultation with teachers
- d) Advisory councils
- e) Program management and operations
- f) Research and development
- g) Networking with professionals

This curriculum is designed to assist all students from Kindergarten to 12th grade. Because guidance curriculum is developmentally based, students are able to build on previous knowledge rather than having to relearn basic competencies. This provided a continuity of guidance serves over a 13-year span. This continuity provides a remediation of many problems during a relatively young age, and prevents them from recurring later on in school.

In addition to the above programs, the counselor is responsible for the testing program.

- 1) ACT (recommended for Juniors or Seniors) or Compass test (for vocational majors)
- 2) National Merit Scholarship Qualification Test (PSAT-Juniors)
- 3) Armed Services Vocational Aptitude Battery (ASVAB – Juniors)
- 4) Iowa Tests of Educational; Development (9th – 11th Grades)
- 5) PLAN (Sophomores)
- 6) Choices Interest (Junior and Senior High Students)
- 7) Career Interest Survey