



RED OAK SENIOR HIGH SCHOOL

COURSE DESCRIPTION BOOK

2023-2024

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The curricula of Red Oak High School have been developed through the combined efforts of the faculty and administration. The following course offerings provide evidence that we are continuously seeking methods and means to improve our schools and outcomes for our students. The school district acknowledges that its programs must meet the needs of the community it serves by preparing students for college and career opportunities.

GRADUATION COURSE & CREDIT REQUIREMENTS

SUBJECT	REQUIRED CREDITS	COURSE PATHWAY	LENGTH OF COURSE	CREDITS EARNED
English	8	9th - Language Arts 9* 10th - Language Arts 10* 11th - elective options 12th - elective options	Year Year Varies Varies	2 2 2 2
Math	6	9th - PreAlgebra OR Algebra I* 10th - Algebra I* OR Geometry* 11th - Geometry* OR Algebra II*	Year Year Year	2 2 2
Science	6	9th - Biology* 10th - Physical Science* 11th - Earth & Space Science*	Year Year Year	2 2 2
Social Studies	6	9th - US History I* 10th - US History II* 11th - Government* 12th - elective option	Year Year Semester Semester	2 2 1 1
Fine Arts	1	9th - 12th elective option (Music, Band, Art)	Varies	Varies
CTE Career Technical Education	2	11th - Personal Finance I* 1 credit - elective option (taken in 9, 10, 11, or 12) (Business, FCS, Ag, Industrial Technology)	Semester Varies	1 Varies
Physical Education	8	9th 10th 11th 12th	Year Year Year Year	2 2 2 2
Electives	15	Any class which is not required or not used toward the number of credits needed for each subject	Varies	Varies
Foreign Language	0	2 years recommended for 4 year college/university bound students (elective credit) Check with your college or university to determine the best choice for you.		
CPR	–	State of Iowa Education requirement CPR provided by school		
TOTAL CREDITS	52			

*Required courses in year as indicated

CREDIT RECOVERY

Students have the opportunity to recover credit from a failed required course due to work completion, failed assessments, or attendance.

Whenever a student fails a required course, the course must be made up or retaken as soon as possible. Failed courses will be added to the upcoming correlating semester in the students 4-year academic plan by the school counselor to ensure proper scheduling. Credit recovery courses will be scheduled within the classroom.

Whenever a student fails an elective course, the particular course failed need not be made up or retaken; however, the student must be sure he or she will have enough credits to graduate. In each and every situation, the best procedure to follow whenever a course is failed is for the student to visit with the school counselor. No credit is given for failed courses.

Credit recovery in the summer may be available. This is determined on an individual basis.

DUPLICATING COURSES

In most cases when a course is successfully completed, it may not be retaken for credit. There are exceptions and you should review each course description. Written permission from the teacher is required to duplicate any course. The student's 4-year academic plan should reflect the duplication.

MINIMUM SCHOOL DAY FOR HIGH SCHOOL STUDENTS

The Board of Directors encourages all students to make maximum use of curricular offerings, supplemental resources, and all other educational facilities.

To that end, it shall be the policy of the Red Oak Community School District that all high school students are in attendance for a school day. Each student is to be enrolled in a minimum of eight courses and a seminar class per semester.

Juniors are allowed to schedule and leave campus for MOC (Multi-Occupational Careers) for 2 periods per day with prior approval from the coordinating CTE teacher and administration. (Documentation required from the workplace.)

Seniors are allowed to schedule and leave campus for up to 4 periods per day for MOC (Multi-Occupational Careers) with prior approval from the coordinating CTE teacher and administration or for Senior Release with prior approval from administration. (Documentation required from the workplace.)

Senior Release allows seniors who are on target to graduation, an opportunity to reap the benefits of hard work throughout their high school career. Application, administrator review and permission are required. Students must be enrolled in and attend 4 class periods per semester at the high school throughout their senior year. Students will only be allowed to leave and return to the building 1 time per school day. Students are able to apply for Senior Release for the following reasons:

- The student has successfully completed 48 credits prior to their senior year.
- OR
- The student is on target to graduation and meets all of the following requirements:
 - 2.5 GPA or higher
 - 90% Attendance rate
 - Student has a job that has been verified by school personnel. Continued, periodic documentation of employment is required.

RECOMMENDED PATHWAY COURSES

Grade	Content Area	2 or 4 year college/tech school	Military	Work Force
9	Language Arts	Language Arts 9	Language Arts 9	Language Arts 9
	Math	Algebra I	Pre-Algebra/Algebra	Pre-Algebra/Algebra
	Science	Biology	Biology	Biology
	Social Studies	US History I	US History I	US History I
	Foreign Language	Spanish I (as required by college institution/major of study)	Elective Choice	Elective Choice
10	Language Arts	Language Arts 10	Language Arts 10	Language Arts 10
	Math	Geometry	Algebra/Geometry	Algebra/Geometry
	Science	Physical Science	Physical Science	Physical Science
	Social Studies	US History II	US History II	US History II
	Foreign Language	Spanish II (as required by college institution/major of study)	Elective choice	Elective choice
11	Language Arts	Language Arts Elective	Language Arts Elective	Language Arts Elective
	Math	Algebra II	Geometry/Algebra II	Geometry/Algebra II
	Science	Earth & Space	Earth & Space	Earth & Space
	Social Studies	Government/Social Studies Elective	Government/Social Studies Elective	Government/Social Studies Elective
	Foreign Language	Spanish III (as required by college institution/major of study)	Elective choice	Elective choice
12	Language Arts	Language Arts Elective	Language Arts Elective	Language Arts Elective
	Math	Trigonometry & Precalculus/ AP® Calculus/College Math	Elective choice	Elective choice
	Science	Chemistry/Physics	Elective choice	Elective choice
	Social Studies	Government/Social Studies Elective	Government/Social Studies Elective	Government/Social Studies Elective
	Foreign Language	Spanish IV (as required by college institution/major of study)	Elective choice	Elective choice

There are additional district course requirements for graduation: Physical Education, Fine Arts, Career Technical Education electives (refer to graduation requirements on page 3).

College courses can be taken in grades 9-12 if requirements are met. Courses are contracted through Southwestern Community College. Students apply through the school counselor.

College classes do not replace required high school classes. Example: Taking the college class US History to 1877 does not replace the required high school course US History I.

GRADING SYSTEM

Every student will receive quarter and semester grades. The only grades maintained in the school's permanent record and used to determine class rank are those shown as final semester grades. Letter grades are used in the reporting system.

<u>Letter Grade</u>	<u>Percentage</u>	<u>Course Grade</u>
A	100 - 93	4.000
A-	92 - 90	3.667
B+	89 - 87	3.333
B	86 - 83	3.000
B-	82 - 80	2.667
C+	79 - 77	2.333
C	76 - 73	2.000
C-	72 - 70	1.667
D+	69 - 67	1.333
D	66 - 63	1.000
D-	62 - 60	0.667
F	59 and below	0.0
P	Pass	
NC	No Credit	
I	Incomplete	
W	Withdraw	
M	Student didn't complete course for medical reasons	

SCHEDULING PARAMETERS

Red Oak Senior High School will schedule students during the second semester for both semesters of the forthcoming school year. All classes are considered to be one semester in length so far as an individual student's schedule is concerned.

Teacher assignments for two semesters may vary. Students are able to access their schedule via Infinite Campus.

To ensure that both parents and the school counselor are actively involved in the scheduling process, both parents and counselor signatures are required before the schedule is deemed "finalized."

SCHEDULE CHANGES

Schedules are built through the development of the 4-year academic plan. All students and parents are actively involved each year in reviewing and modifying their 4-year academic plan to align with graduation requirements as well as their post-secondary plan - career, military, college. Parents are asked to approve the initial plan and review their student's 4-year academic plan every year.

Schedule changes may be made within the first 2 days of a course according to a student's 4-year academic plan using the following criteria:

- Proficiency level on Iowa Statewide Assessment of Student Progress (ISASP)
- Failure in first or second semester course
- Completion of summer school courses or independent study projects
- Special education placement
- Seniors who need courses for graduation in their schedule
- Failure to have the necessary prerequisites of a course
- Wanting to simply add a course without disturbing the rest of the schedule
- Computer and/or clerical error

Changes deemed unnecessary will not be done. Examples of these include but are not limited to: (1) requesting a specific teacher for a course; and (2) requesting a specific hour for a class.

See Southwestern Community College parameters for scheduling information and requirements including dropping a course on page 9.

INDEPENDENT STUDY

The purpose of independent study is twofold: (1) to organize student exploration of a subject area so that a student may examine an area of interest in depth and under the direction of a faculty member or a department; and (2) to resolve a schedule conflict.

Plan for Independent Study (teacher and administrator approval required):

1. Student contacts the teacher under whom an independent study project class will be conducted.
2. Student completes schedule request form - teacher/parent signature required.
3. Counselor reviews the proposal, ascertains parental consent, signs the request, and sends the form to the principal for approval.

Guidelines for Participation:

1. Independent study courses are recommended only for grades 11 and 12.
2. The student and teacher advisor must have mutually agreeable free time for consultation and planning.
3. Students must complete all work on courses for credit at least one week prior to the close of the semester in which the work will be recorded.
4. All requests must be approved by the student's parent or guardian.
5. Students must complete all necessary regularly offered courses in a particular area before approval will be given for an independent study course unless this is to resolve a schedule conflict.

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SENIOR YEAR PLUS PROGRAM

The Senior Year Plus (SYP) Program serves as an umbrella for a variety of programs designed to provide high school students access to courses that have the potential to generate college credit. The program was enacted to promote rigorous academic pursuits and to provide a wider variety of options to all high school students. It enables 9-12 grade students who qualify to enroll part-time in nonsectarian courses in eligible post-secondary institutions of higher learning in Iowa. Different programs have specific grade competency and application requirements as listed within the program and course descriptions. Students must have self-discipline, time management and motivation to meet deadlines and complete work independently.

For more information on the Senior Year Plus Program, visit:

<https://educateiowa.gov/adult-career-comm-college/senior-year-plus>

COLLEGE CLASSES - SOUTHWESTERN COMMUNITY COLLEGE (SWCC)

Students must have self-discipline, time management and motivation to meet deadlines and complete work independently.

PREREQUISITES FOR ALL SWCC CONCURRENT ENROLLMENT COURSES:

- *Student must be in grades 9-12.*
- *Student must be proficient in Reading AND Math AND Science on the statewide assessments each year to participate. Assessment proficiency starts in 8th grade.*
- *Online application for admission to SWCC must be completed.*
- *Completion of SWCC Registration Form* - parent, student, and school official signatures.*
- *Submission of high school transcript for Composition or Math courses.*
- *Meet any additional requirements as set forth by the college.*

****Completion of application and registration form does not guarantee enrollment in the courses selected. Roster availability, prerequisites, and placement scores will be evaluated before enrollment is confirmed.***

Students may participate in classes at the Red Oak campus, online, or in district as offered.

ACADEMIC AWARENESS:

- **All college courses are 1 semester in length.**
- **Taking a college course begins your college transcript and college GPA.**
- **A college course also affects your high school transcript and GPA.**
- **Students are responsible to communicate with the teacher any questions or concerns they have.**

Students are given one period per college class if their schedule allows. All online college courses are supervised. Grade checks will be completed every 2 weeks. Parents will be notified by email of grades.

WITHDRAW FROM A COURSE:

Students who elect to drop a college course must complete the add/drop form which requires a parent signature of approval.

If the course is dropped within the SWCC 100% refund period (date set by SWCC):

- **Student will receive a W (withdraw) on high school transcript.**
- **Student must enroll in a regular high school course.**

Within 3 weeks (of the college start date):

- **Student will receive an F on high school transcript for college course.**
- **Student must enroll in a regular class elective high school course (teacher approval needed).**
- **Student must make up missed work in high school course as determined by teacher.**

Past 3 weeks (of the college course start date):

- **Student will receive an F on high school transcript for college course.**
- **Student must enroll in a high school online semester course for elective credit only.**
- **Course must be completed by the end of the semester to receive an earned grade.**
- **Failure to complete the course will result in an F on transcript.**
- **Course options: course options will be a minimum at grade level. Options will be based on the remaining duration of the semester and the student's ability to complete the course to receive a grade. Credit will be prorated.**

COURSE DESCRIPTIONS

LANGUAGE ARTS

Language Arts 9 & 10

These year-long courses focus on the Iowa Core strands: Reading, Writing, Language, and Speaking and Listening. Throughout these courses, students are provided opportunities to advance various 21st century skills along with the Iowa Core skills that are embedded in each strand. As students work towards developing their individual writing and overall reading comprehension skills, they will learn writing techniques, take part in class discussions, advance presentation skills, develop leadership skills, improve their teamwork capabilities, and progress their decision making skills that are necessary in the work world.

Language Arts 9

Grade: 9

Credit: 2

Term: Year

Required

An emphasis will be given to the Iowa Core reading literature strand, research standards, and informational writing standard. Students will engage in the writing process on a continual basis and produce pieces of writing that will exemplify individual writing abilities and progress.

Language Arts 10

Grade: 10

Credit: 2

Term: Year

Required

Prerequisite: Successful completion of both semesters of Language Arts 9

An emphasis will be given to the Iowa Core reading informational text strand, research standards, and argumentative writing standard. Students will engage in the writing process on a continual basis and produce pieces of writing that will exemplify individual writing abilities and progress.

Literature Explorations

Grade 10-12

Credit: 2

Term: Year

Elective

Prerequisite: Successful completion of both semesters of Language Arts 9

This course offers a variety of texts and builds strategies for comprehension, interpretation, and analysis through the study of American literature, English literature and World Literature. Students will experience independent and small group work, project work, and large group discussion.

Communication in the Real World I

Grade 11-12

Credit: 1

Term: Fall

Elective

Prerequisite: Successful completion of both semesters of Language Arts 10

In this course, students will study communication forms, processes, and strategies for use in all aspects of life. Students will speak, listen, read and write. They will work as individuals and in groups. Career and college readiness skills will be emphasized as students learn writing techniques, critical thinking skills, and leadership skills needed in the real world.

Communication in the Real World II

Credit: 1

Elective

Grade 11-12

Term: Spring

Prerequisite: Successful completion of both semesters of Language Arts 10

This course is a continuation of Communication in the Real World I. Students will expand their study of communication forms, processes, and strategies to build concrete skills for use in the real world. Students will benefit from taking Communication in the Real World I first, but it is not required for successful completion of this course.

Debate

Credit: 1

Elective

Grade: 10-12

Term: Fall

Prerequisite: Successful completion of both semesters of Language Arts 9

A special emphasis will be on the Iowa Core Speaking & Listening strand, Iowa Core Writing strand, critical thinking skills, as well as argument resolution. Students will learn argumentation, research, and advocacy skills that they can use in a variety of experiences in different curricular areas. Students will engage in the writing process on a continual basis as they create and prepare cases.

21st Century Communication

Credit: 1

Elective

Grade: 10-12

Term: Spring

Prerequisite: Successful completion of both semesters of Language Arts 9

This course will emphasize the skills and knowledge required to produce stories through digital photography, layout, design and advertising. Students will learn the importance of media and visual literacy in our ever-changing world. They will learn how to conduct interviews, write in journalistic forms, and use social media as a communication platform in various contexts.

Creative Writing

Credit: 1

Elective

Grade: 9-12

Term: Fall

Creative Writing will focus on the process of producing quality creative pieces (short stories, poems, etc.) in a workshop environment. Students will think through writing, use literature as a springboard for writing, and make use of publication to improve skills in grammar and usage. Students will learn to give meaningful feedback to other writers as well as identify and problem-solve issues in their own work by going through an extensive revision process. Mini-lessons will focus on their narrative arc, dialogue in fiction, metaphors, symbols in poetry, etc. Students will leave this course with a portfolio of their creative work.

Young Adult Literature

Credit: 1

Elective

Grade: 9-12

Term: Semester

Young Adult Literature is designed for students who enjoy reading and desire an opportunity to strengthen their skills in comprehension and literary analysis. Students will study young adult literature by genre, such as fantasy, science fiction and action/adventure. Students will choose a novel from selected texts for each genre, then dig into literary components such as character development, theme, symbolism, conflict, irony, setting, style, and point of view. This class will use a small group structure where students will read and then present their novels to the class. Oral and written communication skills will be reinforced. Film adaptations of some young adult novels will be used to further the study of genre and reinforce students' abilities to compare and contrast.

Yearbook

Grade: 10-12

Prerequisite: Application & Interview

Credit: 1

Term: Year

Elective

This course deals with all phases of yearbook preparation: planning, design, layout, photography, copywriting, advertising, sales, assembly, and distribution. The course will include information about preparation and printing, and hands-on production experience in assembling the yearbook. This class requires time spent outside the school day. The class is open to all students in grades 10-12 upon teacher approval.

AP® Language and Composition*

Grade: 11-12

Prerequisite: Successful completion of Language Arts 9 & 10

Credit: 2

Term: Year

Elective

Following the College Board's suggested curriculum designed to parallel college-level English courses, AP Language and Composition exposes students to prose written in a variety of periods, disciplines, and rhetorical contexts. The course emphasizes the interaction of the author's purpose, intended audience, and the subject at hand, and through them, students learn to develop stylistic flexibility as they write compositions covering a variety of subjects that are intended for various purposes. **Students should be able to read a college-level textbook independently and write grammatically correct, complete sentences.**

**Course available pending College Board approval and teacher availability*

Southwestern Community College Dual Enrollment Options

These semester-long ELA courses are available for qualifying students who meet the SWCC Concurrent Enrollment requirements. Talk to a counselor to learn more.

ENG 105 - Composition I

Grade: 9-12

Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

Credit: 1 HS / 3 College

Term: Semester

Elective

This is an intensive writing course designed to develop skills in the use of language, clear thinking, critical reading, and effective writing within an essay format. Special emphasis will be placed on development of content, clear organization, sentence and paragraph structure, and correctness in usage, grammar, and mechanics. Research documentation is introduced.

ENG 106 - Composition II

Grade: 9-12

Prerequisites: English 105 Composition I, Must meet SWCC Concurrent Enrollment Requirements

Credit: 1 HS / 3 College

Term: Semester

Elective

This course is intended to build upon the skills students develop in ENG 105 Composition I. As such, the course assumes that students have a basic control of paragraphing, mechanics, grammar, and punctuation. The primary focus of the course shifts from the personal writing of ENG 105 Composition I to analytical, persuasive, and research writing. The course emphasizes critical thinking and clear, coherent development of thought. Using their research skills and the ability to organize the results of information gathering, students will be expected to analyze and present the results of their research in clear, organized, persuasive, and interesting writing projects.

LIT 101 - Introduction to Literature

Credit: 1 HS / 3 College

Elective

Grade: 9-12

Term: Semester

Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

As a study of the nature and purpose of literature in our culture, this course will include reading, discussion, and evaluation of literary works (including short stories, drama, and poetry) from different countries and different time periods.

LIT 178 - Mythological and Biblical Literature

Credit: 1 HS / 3 College

Elective

Grade: 9-12

Term: Semester

Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

Every culture tells stories of where we came from, who we are, and how we should act toward each other. An understanding of various world mythologies, especially Greek and Roman, and of some basic stories from the Bible, is vital for understanding and appreciating much of the world's literature and art. This course will examine these early oral stories as pieces of literature and how Western culture has referred to these stories.

SPC 112 - Public Speaking

Credit: 1 HS / 3 College

Elective

Grade: 9-12

Term: Semester

Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

Principles of speech communication; preparation, delivery, and adjustment to the audience; informative and persuasive speaking. Emphasis on both speaking and listening.

MATHEMATICS

Pre-Algebra

Grade: 9

Credit: 2

Term: Year

Required *(based on math track)*

Prerequisite: Placement in Pre-Algebra will be based on the student's math standing at the end of 8th grade.

This course is designed for those that have been previously identified as students that may struggle with Algebra. It will use problems and explorations to help improve mathematical thinking. Students will focus on number sense, operational sense, equation structure, and the coordinate plane.

Algebra I

Grade: 9-10

Credit: 2

Term: Year

Required

This course is a study of equations, functions, coordinate systems, and applications of each in problem solving. Algebra I is the first math class expected to meet graduation requirements.

Geometry

Grade: 10-12

Credit: 2

Term: Year

Required

Prerequisite: Successful completion of Algebra I

A standard study of Euclidean plane (flat) geometry with a strong emphasis on the solving of geometric proofs. Included are brief studies of logic, trigonometric functions, and coordinate geometry.

Algebra II

Grade : 10-12

Credit: 2

Term: Year

Required *(based on math track)*

Prerequisite: Successful completion of Geometry

This is an integrated course in algebra and trigonometry containing the modern mathematical viewpoints. Emphasis is placed on mathematical structure, various number systems from natural to complex numbers, and the properties of each.

Trigonometry/Precalculus

Grade: 11-12

Credit: 2

Term: Year

Elective

Prerequisite: Successful completion of Geometry and Algebra II

An introduction to calculus with functions, graphs, limits, area under a curve, and rates of change. A focus on algebra is woven throughout the course. This course is highly recommended for those going to college in an area where calculus will be required.

AP® Calculus*

Grade: 12

Credit: 2

Term: Year

Elective

Prerequisites: Successful completion of Trigonometry/Precalculus

Following the College Board's suggested curriculum designed to parallel college-level calculus courses, this course provides students with an understanding of the concepts of calculus and experience with its methods and applications. This course introduces calculus and includes the following topics: functions, graphs, limit, and continuity; differential calculus (including definition, application, and computation of the derivative at a point; derivative as a function; and second derivatives); and integral calculus (including definite integrals and

antidifferentiation). This course is highly recommended for those going to college in an area where calculus will be required.

**Course available pending College Board approval and teacher availability*

Southwestern Community College Dual Enrollment Options

These semester-long math courses are available for qualifying students who meet the SWCC Concurrent Enrollment requirements. Talk to a counselor to learn more.

MAT 110 - Math for Liberal Arts (face to face only) Credit: 1 HS / 3 College Elective
 Grade: 9-12 Term: Semester
 Prerequisites: 2 years of high school algebra or MAT 101 Intermediate Algebra or recommended ACCUPLACER score, Must meet SWCC Concurrent Enrollment Requirements

Students will use critical thinking in their study of logic, sets, and statistical reasoning. Students will perform problem-solving and decision-making by studying probability and application of statistical data, modeling, and financial mathematics. Abuses of mathematical data; the history of mathematics; and applications of mathematics in art, music, business, and politics will also be surveyed.

MAT 120 - College Algebra (face to face only) Credit: 1 HS / 3 College Elective
 Grade: 9-12 Term: Semester
 Prerequisites: MAT 101 Intermediate Algebra or recommended ACCUPLACER score; Must meet SWCC Concurrent Enrollment Requirements

Topics to include: the real and complex number systems and Cartesian coordinate system. Additional concepts include polynomial, exponential, and logarithmic functions as well as matrix algebra, systems of equations, conic sections and sequences and series.

MAT 156 - Statistics (face to face only) Credit: 1 HS / 3 College Elective
 Grade: 9-12 Term: Semester
 Prerequisites: MAT 101 Intermediate Algebra or recommended ACCUPLACER score, Must meet SWCC Concurrent Enrollment Requirements

This course provides a foundation of statistical concepts and procedures that can aid the student as both a consumer and producer of statistical information. The course emphasizes descriptive and inferential statistical methods, probability, estimation, hypotheses testing and linear regression. Students are introduced to technology as it applies to introductory statistical methods.

MAT 210 - Calculus I (face to face only) Credit: 1 HS / 4 College Elective
 Grade: 9-12 Term: Semester
 Prerequisites: MAT 127 College Algebra and Trigonometry or recommended ACCUPLACER score, Must meet SWCC Concurrent Enrollment Requirements

This course continues where MAT 127 College Algebra and Trigonometry left off. Topics will include, but are not limited to: limits and continuity, derivatives, applications of derivatives, and integration.

MAT 216 - Calculus II (face to face only)

Credit: 1 HS / 4 College

Elective

Grade: 9-12

Term: Semester

Prerequisites: MAT 210 Calculus I, Must meet SWCC Concurrent Enrollment Requirements

This course studies transcendental function, techniques of integration, infinite series, conic sections, parameterized curves, and polar coordinates.

SCIENCE

Biology

Grade: 9

Credit: 2

Term: Year

Required

This course is designed to provide information regarding the fundamental concepts of life and life processes. It includes such topics as cell structure and function, general plant and animal physiology, genetics, taxonomy, biochemistry, evolution, and ecology.

Physical Science

Grade: 10

Credit: 2

Term: Year

Required

In Physical Science, students will study the structures and states of matter. Students are introduced to various topics including: forms of energy, wave phenomenon, electromagnetism, and physical and chemical reactions.

Earth & Space

Grade: 11

Credit: 2

Term: Year

Required

In this course, students will explore the Iowa Core's Earth and Space standards. Topics will include the Earth's formation, early history, and place in the universe as well as human interactions with and impact on natural resources. Students will also explore the atmosphere, weather, and climate.

Chemistry

Grade: 11-12

Credit: 2

Term: Year

Elective

Chemistry is a survey course of inorganic chemistry. The properties of the elements, their compounds, reactions, and practical uses constitute the main portion of the course. One or more labs accompany each unit of study. College bound students should consider this course a must. A calculator is required, a scientific calculator is recommended.

Physics

Grade: 11-12

Credit: 2

Term: Year

Elective

A survey of the basic fields of physics including mechanics, heat, light, sounds, electricity, and nuclear physics is presented. Since physics is an attempt to describe the physical world in mathematical terms, this course makes use of many mathematical equations. One or more labs accompany each unit of study. This course is highly recommended for students planning to take additional science courses in college. A calculator is required, a scientific calculator is recommended.

SOCIAL STUDIES

U.S. History courses will be taught in a chronological sequence. Students will learn skills such as argumentation, corroboration, contextualization, and sourcing, that are vital to transfer knowledge across historical and current events. This knowledge and skill set is meant to develop strong citizens of local, state, national, and global societies.

U.S. History I

Grade: 9

Credit: 2

Term: Year

Required

Topics to be covered in this course over the full year include: Reconstruction, Growth in the West, Industrialization and Immigration, The Progressive Era, Imperialism, World War I, the Roaring Twenties, the Great Depression and the New Deal.

U.S. History II

Grade: 10

Credit: 2

Term: Year

Required

Topics to be covered in this course over the full year include: The Rise of Dictators and World War II, the Korean War, the Cold War Era, the Civil Rights Era, the Vietnam War, and Foreign & Domestic Policies of the 1980s-Present Day.

World History I

Grade: 9-12

Credit: 1

Term: Fall

Elective

In this course, students will learn and apply the skills of historians by breaking down primary and secondary sources and contexts of events throughout world history. Each unit will focus on using primary and secondary sources to explore different perspectives. Topics include World Religions, Medieval Empires Around the World, and Revolutions from Around the World within the past 150 years.

World History II

Grade: 9-12

Credit: 1

Term: Spring

Elective

In World History II, students will continue to apply the skills of historians as they study contemporary issues from around the world and consider overall themes throughout history. Primary and secondary sources will again be a point of emphasis in looking at multiple perspectives from historical events and implications of these events seen in our world today. Themes to be covered include war, poverty, and technology. Specific topics will include: imperialism around the world and contemporary historical events from the past 100 years. **Students will greatly benefit from taking World History I first**, but it is not required for successful completion of this course.

Human Studies I

Grade: 9-12

Credit: 1

Term: Fall

Elective

Human studies is designed to assist young people in a better understanding of themselves, others, and behavioral impacts on society. Focus in the fall semester is on the psychology of human growth and development.

Human Studies II

Grade: 9-12

Credit: 1

Term: Spring

Elective

This course is a continuation of Human Studies I, which is designed to assist young people in a better understanding of themselves, others, and behavioral impacts on society. Topics discussed in the spring include: how groups form, societal influences on individuals and groups, what makes up cultures and how people acquire their belief systems, ethical issues and behavior, and the impact of mental health disorders.

Geography

Grade: 9-12

Credit: 1

Term: Semester

Elective

This course focuses on the physical and cultural features of local, national, and global regions. Students will create geographical representations and will demonstrate understanding of the interrelationships between geographical features and human populations & movement patterns. Economics within and among regions will be explored, including: economies, unemployment, supply and demand, taxes, government policies, and business.

Government

Grade: 11-12

Credit: 1

Term: Semester

Required

Government is a one-semester class for all juniors or seniors and a requirement for graduation. It covers introductory government concepts including: U.S. Constitutional Principles; Executive, Legislative, and Judicial branches; Comparative Government; Politics and Elections of the United States government. Current events are an integral part of this course. This course meets the local, state, and U.S. government requirements of the Iowa Core curriculum.

AP® World History: Modern*

Grade: 11-12

Credit: 2

Term: Year

Elective

Following the College Board's suggested curriculum designed to parallel college-level World History courses, AP® World History: Modern examples the world history from 1200 to the present with the aim of helping students make connections of historical evolution across times and places. This course highlights the interaction between humans and the environment; development and interaction of cultures; state-building, expansion and conflict; creation, expansion and interaction of economic systems; and development and transformation of social structures. ***Students should be able to read a college-level textbook independently.***

**Course available pending College Board approval and teacher availability*

Southwestern Community College Dual Enrollment Options

These semester-long social sciences courses are available for qualifying students who meet the SWCC Concurrent Enrollment requirements. Talk to a counselor to learn more.

GEO 121 - World Regional Geography

Grade: 9-12

Credit: 1 HS / 3 College

Term: Semester

Elective

Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

A geographic survey of nations and continents with emphasis on important physical characteristics of the major regions of the world. Attention is devoted to their demographics, economic, political, and cultural development with each other. The course covers physical and cultural geography as well as basic geographical literacy. The human impact on the environment and growing problems of resources are discussed.

HIS 110 - Western Civilization: Ancient to Early Modern Credit: 1 HS / 3 College Elective
 Grade: 9-12 Term: Semester
 Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

This course explores the cultural, political, literary, and economic aspects of Western civilization from the first civilizations in Mesopotamia and Egypt to the Greeks and Romans. This course also discusses the conflicts of the Middle Ages, Renaissance, and Reformation.

HIS 111 - Western Civilization: Early Modern to Present Credit: 1 HS / 3 College Elective
 Grade: 9-12 Term: Semester
 Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

This course explores the cultural, political, literary, and economic aspects of Western civilization from the practice of absolutism to the intellectual revolutions of science, agriculture, and philosophy. This course also discusses the conflicts of the 18th through 21st centuries.

HIS 151 - U.S. History to 1877 Credit: 1 HS / 3 College Elective
 Grade: 9-12 Term: Semester
 Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

This course explores the cultural, political, literary, and economic aspects of the colonies as they developed into the United States of America. Such topics as the American Revolution, the Constitution, the Trail of Tears, and the Civil War will be examined.

HIS 152 - U.S. History since 1877 Credit: 1 HS / 3 College Elective
 Grade: 9-12 Term: Semester
 Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

This course explores the cultural, political, artistic, and economic aspects of the United States after the Civil War. Such topics as Reconstruction, World War I, the Roaring Twenties, World War II, the Cold War, and the subsequent events will be discussed.

HIS 268 - American Experience in Vietnam Credit: 1 HS / 3 College Elective
 Grade: 9-12 Term: Semester
 Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

A survey of the 2,000-year history of Vietnam, the French Indochina War and U.S. involvement, the military role, the view from those who participated and discussion of the consequences of American participation in the Asian conflict. The conflict will be viewed with the context of the Cold War and explores the events, attitudes and political scene leading up to the United States' commitment in Southeast Asia. Exploration of the anti-Vietnam War movement will also take place.

PSY 111 - Introduction to Psychology Credit: 1 HS / 3 College Elective
 Grade: 9-12 Term: Semester
 Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

An introductory course to the scientific study of human behavior and mental process. This course includes such topics as: the background of modern psychology, personality development, brain and behavior, heredity and environment, learning and motivation, emotional processes, intelligence, human interaction, and psychological disorders.

PSY 121 - Developmental Psychology

Credit: 1 HS / 3 College

Elective

Grade: 9-12

Term: Semester

Prerequisite: PSY 111 Introduction to Psychology; Must meet SWCC Concurrent Enrollment Requirements

This course affords the student an overview of the psychology of human growth and development from conception through death. Emphasis is placed upon the continuous interactions and interrelationship of these processes with environmental forces and conditions that influence patterns of behavior. Major developmental theories are presented: cognitive, personality, social, and behavioral.

SOC 110 - Introduction to Sociology

Credit: 1 HS / 3 College

Elective

Grade: 9-12

Term: Semester

Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

This survey course explores the discipline of sociology which focuses on human interaction, groups, and society. Topics will include but are not limited to: culture, socialization, social structure and interaction, organization and various social institutions such as family, religion, politics, deviance, etc. Appropriate language, theory and research process will be covered. This course is focussed primarily upon United States cultural patterns.

ECN 120 - Principles of Macroeconomics

Credit: 1 HS / 3 College

Elective

Grade: 9-12

Term: Semester

Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

An introduction to the concepts and terminology of macroeconomics. This course covers national income and national output, money and banking, fiscal and monetary policy, inflation, unemployment, and international trade.

ECN 130 - Principles of Microeconomics

Credit: 1 HS / 3 College

Elective

Grade: 9-12

Term: Semester

Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

An introduction to the concepts and terminology of microeconomics. A study of supply and demand, individual consumer and firm behaviors, pricing and the market system, market structure, and the allocation of resources.

FINE ARTS

Studio Art
Grade: 9-12

Credit: 1
Term: Fall

Elective

Studio Art is a one semester course for the student interested in exploring several creative art mediums. Units covered will include: drawing, pastels, painting, ceramics, and sculpture. Students will also learn art terminology and some art history. ***This course is one of the prerequisites for Advanced Studio Art.***

Drawing & Printmaking

Grade: 9-12

Offered biennially starting in 2022

Credit: 1
Term: Fall

Elective

This is a one semester course in which the student has the opportunity to work with and explore different drawing media and printmaking media. Pencil charcoal, pen & ink, pastel, and printmaking will be explored. ***This is a studio-based course that can help fulfill prerequisites for Advanced Studio Art.***

Advanced Drawing & Printmaking

Grade: 10-12

Prerequisite: Successful completion of Drawing & Printmaking
Offered biennially starting in 2023

Credit: 1
Term: Fall

Elective

This course builds on Drawing & Printmaking with the opportunity to work with and explore different drawing media and printmaking media. Students will refine their creative processes and develop their own artistic styles following and breaking from traditional convention. This course includes a study of historical and contemporary art from a worldwide perspective. ***This is a studio-based course that can help fulfill prerequisites for Advanced Studio Art.***

Digital Media Arts

Grade: 9-12

Credit: 1
Term: Semester

Elective

Digital Media Arts is intended for high school level students to gain an understanding of digital print and online media. Students will do digital photography and use graphic design software to demonstrate creative thinking, construct knowledge, and to develop innovative products and processes. Students will visually communicate information and ideas effectively through these media. **Maximum class size: 24.**

Virtual Design

Grade: 9-12

Prerequisite: Successful completion of Digital Media Arts

Credit: 1
Term: Spring

Elective

Virtual Design uses a computer to create simulated 3-dimensional experiences, environments, products, presentations, and objects. Students are free to explore and learn a variety of techniques used in computer graphics, virtual reality, and 3-D printing. Students that are in this class must be self-motivated, have a desire to learn and have a good imagination. Students will spend a significant amount of time on their own doing research and designing various projects that will be due throughout the semester. **Maximum class size: 24.**

Ceramics

Grade: 9-12

Offered biennially starting in 2022

Credit: 1

Term: Semester

Elective

This is a one semester course in which the student will earn the basic principles of working in clay. Students will focus on learning several hand building techniques. An additional lab fee may be imposed based on the amount of materials used. ***This is a studio-based course that can help fulfill prerequisites for Advanced Studio Art.*** **Maximum class size: 20.**

Sculpture & 3-D Design

Grade: 9-12

Offered biennially starting in 2023

Credit: 1

Term: Semester

Elective

Sculpture & 3-D Design promotes creative expression through three-dimensional works. Students will explore representational and abstract sculpture through subtractive (carving), additive (modeling), and assemblage techniques in one or more media. This course includes the production of representational and abstract sculpture while incorporating elements of art and principles of design, along with a study of historical and contemporary sculpture and sculptors from a worldwide perspective. ***This is a studio-based course that can help fulfill prerequisites for Advanced Studio Art.*** **Maximum class size: 20.**

Advanced Studio Art

Grade: 11-12

Prerequisites: Teacher approval and successful completion of Studio Art AND one other studio-based art class

Credit: 1

Term: Spring

Elective

Advanced Studio Art is a course for the serious art student. Students will select one or several artistic areas to explore in depth during the semester, with the goal to develop pieces for a portfolio. Students may elect to pursue advanced studies in sculpture, pottery, painting, drawing, digital media, and in other areas. Students will learn the basics of taking and preparing digital images of their completed work and develop a resume to submit when applying to art schools, scholarships, and art shows. Students may be required to purchase their own materials. May be repeated for credit with teacher approval.

Junior Varsity Choir

Grade: 9-12

Credit: 1

Term: Semester

Elective

This is a non-auditioned choir for students in grades 9-12. The course is designed to work on the fundamentals of reading musical scores, vocal production, and musicianship. Performances will include all school choral concerts (up to 3 a year). Students will be eligible to audition for the All-State Chorus, the spring musical, state small group contests, Minnisingers, and all other student singing ensembles.

Varsity Choir

Grade: 9-12

Prerequisites: Audition and teacher approval

Credit: 1

Term: Semester

Elective

This is an auditioned group selected from students who demonstrate advanced levels of musical ability and a strong work ethic. Performances will include all school choral concerts. Students will perform advanced choral literature that will include Iowa All-State repertoire. Varsity choir will compete at state/district musical contests and will be involved in the Spring Musical. Students from this choir may also audition for the All-State Choir, be involved in solo/small group contest, festivals, honor choirs, Minnisingers, and other student singing ensembles.

Music Theory

Credit: 1

Elective

Grade: 10-12

Term: Semester

Prerequisites: Enrolled in chorus or band for the year; instructor permission only

This course is offered for **10th through 12th grade students who are serious about music**, especially those with goals of a major or minor in music at the college level. Teacher approval required. The course will include the study of basic theory fundamentals.

Advanced Music Theory

Credit: 1

Elective

Grade: 10-12

Term: Semester

Prerequisites: Enrolled in chorus or band for the year; instructor permission only

This course is a continuation of Music Theory and is offered for **10th through 12th grade students who are serious about music**, especially those with goals of a major or minor in music at the college level. Teacher approval required. The course will include the study of basic theory fundamentals.

Band

Credit: 2

Elective

Grade: 9-12

Term: Year

Prerequisites: Instructor permission only if not taken the previous year

In band, students gain mastery over performance skills on their instrument and learn to collaborate and perform effectively as an ensemble. Students will perform music as a summative experience for their learning in the classroom, as a demonstration of their learning to the public, for professional feedback at music festivals, and as a service to the community. Students have the opportunity to perform a wide variety of literature for many different purposes, including music from classical and contemporary music composers, jazz artists, and contemporary popular music artists. Additionally, students in band explore new ways of connecting with music, responding to music, and creating music through personalized learning experiences.

Southwestern Community College Dual Enrollment Options

These semester-long fine arts courses are available for qualifying students who meet the SWCC Concurrent Enrollment requirements. Talk to a counselor to learn more.

ART 101 - Art Appreciation

Credit: 1 HS / 3 College

Elective

Grade: 9-12

Term: Semester

Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

Art Appreciation is an introduction to the visual arts and explores the nature of art and the mechanisms of creativity, the materials and methods of making art, the purpose of art in various cultures both ancient and contemporary, and the significance of visual literacy in today's world.

MUS 100 - Music Appreciation

Credit: 1 HS / 3 College

Elective

Grade: 9-12

Term: Semester

Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

This course will help the student learn how to listen to music, to make sense of what he/she hears, and increase his/her perspective powers. The course covers the changing musical scene from the Renaissance to the present.

WORLD LANGUAGE

Spanish I
Grade: 9-12

Credit: 2
Term: Year

Elective

Spanish I is a course developed for those students who would like to learn another language while exploring the culture and everyday life of the Spanish-speaking world. Emphasis is placed on learning the vocabulary and grammar needed to communicate in Spanish.

Spanish II
Grade: 10-12

Credit: 2
Term: Year

Elective

Prerequisite: Successful completion of Spanish I

As a continuation of Spanish I, students again expand and focus on their vocabulary and grammar skills. Emphasis continues to be on communication skills as well as the understanding and appreciation of Hispanic culture.

Spanish III
Grade: 11-12

Credit: 2
Term: Year

Elective

Prerequisite: Successful completion of Spanish I and II

Students begin an in-depth look at the Spanish language. Conversation and reading skills are reviewed and practiced and grammar structures are analyzed. Emphasis continues to be placed on communication and the everyday life of persons in Spanish-speaking countries.

Spanish IV
Grade: 12

Credit: 2
Term: Year

Elective

Prerequisite: Successful completion of Spanish I, II, and III

Students continue an in-depth look at the Spanish language. Conversation and reading skills are reviewed and practiced and grammar structures are analyzed. Emphasis continues to be placed on communication and the everyday life of persons in Spanish-speaking countries.

PHYSICAL EDUCATION & HEALTH

Every student is required to enroll in a physical education course every semester each year unless he or she presents a written excuse from a doctor. Student's limitations and disabilities will be considered individually. If necessary, an adaptive program will be set up to meet those needs.

****Waivers do not earn credit - therefore a student must take other classes to complete the graduation requirements of 52 credits.***

Seniors may be excused from physical education if requested in writing and if:

1. The student is enrolled in a cooperative or work study program or other educational program authorized by the school which requires the students to leave the school premises during the school day, OR
2. The student is involved in winter and/or spring sports and wants to fill their schedule with other academic coursework.

****All exemptions must be approved by the parent, principal, and school board.***

Physical Education

Grade: 9-12

Credit: 1

Term: Semester

Required

Students will actively engage in various physical activities and games as they learn and build physical and social skills. Topics include: movement, rhythm, personal and social behavior, social interaction and safety.

Tiger Wellness

Grade: 9-12

Credit: 1

Term: Semester

Elective (meets PE requirement)

If traditional game play in PE isn't your cup of tea, give Tiger Wellness a try! Tiger Wellness is a physical education course geared toward focusing on one's own personal health and growth. Topics include: cardio, flexibility, strength, stress management, and health goals.

Strength & Fitness

Grade: 9-12

Credit: 1

Term: Semester

Elective (meets PE requirement)

Throughout this course, students will follow the guidelines in place for the Red Oak Community School District Strength & Conditioning program, focusing on long term athletic development and life-long fitness components. Students will follow a strategically designed program that emphasizes proper movement patterns through fundamental strength movements such as: squats, hinges, lunges, presses, pulls, and carries. This course will have an emphasis on human movement and maintaining a natural range of motion to live healthy and pain free.

Maximum class size: 24.

Strength & Conditioning

Grade: 10-12

Credit: 1

Term: Semester

Elective (meets PE requirement)

Prerequisite: Successful completion of Strength & Fitness with at least 85% on the most recent semester of Strength & Fitness

Throughout this course, students will follow the guidelines in place for the Red Oak Community School District Strength & Conditioning program, focusing on long term athletic development and life-long fitness components. This course builds on Strength & Fitness and will serve as a tool to **advance students through intense, explosive movements** such as jumping, sprinting and throwing. Students will follow a strategically designed program that emphasizes proper movement patterns, running/sprinting mechanics and the ability to change direction, and progresses the student based on the student's specific needs. Students enrolled in this course will be involved in a program that is designed to focus on the progress of the student over their four-year high school career. **Maximum class size: 24.**

Health I

Grade: 9-12

Credit: 1

Term: Fall

Elective

This course does not meet the physical education requirement

This semester course will provide students with knowledge, skills and resources to help build mental, emotional, and social health. Areas of focus include self-empowerment, safe and healthy relationships, and conflict resolution.

Health II

Grade: 9-12

Credit: 1

Term: Spring

Elective

This course does not meet the physical education requirement

This elective semester course focuses on students' physical health. Areas of study include the body and body systems, human growth and development, nutrition, first aid, and disease prevention including STIs and HIV/AIDS.

Southwestern Community College Dual Enrollment Options

This semester-long coaching course is available for qualifying students who meet the SWCC Concurrent Enrollment requirements. Talk to a counselor to learn more.

PEC 108 - Sports and Society

Grade: 9-12

Credit: 1 HS / 3 College

Term: Semester

Elective

Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

Explores the pervasive appeal of sports in American society. Interrelationships among sport, behavior, culture and social institutions of business, religion, politics, education and family will be examined.

PEC 161 - Sports Officiating

Grade: 9-12

Credit: 1 HS / 3 College

Term: Semester

Elective

Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

This is a course designed to help students gain the basic knowledge of the rules and mechanics for officiating the following sports: volleyball, basketball, baseball, and softball. Students will learn the skills and techniques needed to obtain certification/licensing at the middle school and high school levels.

AGRICULTURE

Introduction to Agriculture I

Grade: 9

Credit: 1

Term: Fall

Elective

This course is designed for 9th grade students. Successful completion of this course is a prerequisite for other ag courses. The course will include the following leadership topics: FFA, Supervised Agricultural Experience, basic plant and animal science, and parliamentary procedure. In addition, the course will focus on agriscience research concepts and general agricultural information. *(Other grades by permission of instructor.)*

Introduction to Agriculture II

Grade: 9

Credit: 1

Term: Spring

Elective

Prerequisite: Successful completion of Introduction to Agriculture I

This course builds upon Introduction Agriculture I and is designed for 9th grade students. The course will include the following leadership topics: FFA, Supervised Agricultural Experience, basic plant and animal science, and parliamentary procedure. In addition, the course will focus on agriscience research concepts and general agricultural information. *(Other grades by permission of instructor.)*

Plant and Soil Science I

Grade: 9-12

Credit: 1

Term: Fall

Elective

Prerequisite: Successful completion of or concurrent enrollment in Introduction to Agriculture I

Any student may enroll if they have completed or are simultaneously enrolled in Introduction to Agriculture I. The course will include the following topics: soil evaluation, basic plant science concepts, natural resources, and agriscience research. The leadership aspects of the FFA and Supervised Agricultural Experience will also be included.

Plant and Soil Science II

Grade: 9-12

Credit: 1

Term: Spring

Elective

Prerequisite: Successful completion of Plant and Soil Science I

This course builds upon topics in Plant and Soil Science I. The course will include the following topics: soil evaluation, basic plant science concepts, natural resources, and agriscience research. The leadership aspects of the FFA and Supervised Agricultural Experience will also be included.

Animal Science I

Grade: 9-12

Credit: 1

Term: Fall

Elective

Prerequisite: Successful completion of or concurrent enrollment in Introduction to Agriculture I

Students will explore hands-on projects and activities to learn the characteristics of large animal science and work on major projects and problems similar to those that animal science specialists, such as veterinarians, zoologists, livestock producers, or industry personnel face in their respective careers. This course deals mainly with large animal (cattle, hogs, horses, sheep, goats) anatomy, reproduction, nutrition, and health. Small animals (dogs and cats) and other **pets will NOT be a focus** in this course.

Animal Science II

Grade: 9-12

Credit: 1

Term: Spring

Elective

Prerequisite: Successful completion of Animal Science I

Students will explore hands-on projects and activities to learn the characteristics of large animal science and work on major projects and problems similar to those that animal science specialists, such as veterinarians, zoologists, livestock producers, or industry personnel face in their respective careers. This course deals mainly with large animal (cattle, hogs, horses, sheep, goats) anatomy, reproduction, nutrition, and health. Small animals (dogs and cats) and other **pets will NOT be a focus** in this course. This course can be taken any Spring semester during high school after completing Animal Science I. The coursework builds upon the concepts from Animal Science I.

Natural Resources

Grade: 9-12

Credit: 1

Term: Fall

Elective

Prerequisite: Successful completion of or concurrent enrollment in Introduction to Agriculture I

Any student may enroll in Natural Resources if they have completed or are simultaneously enrolled in Introduction to Agriculture I. The course will include the following topics: the use of land, food, wildlife, forest, air, hunting, trapping, and aquatic animals. This course will be one semester long.

Vet Science

Grade: 9-12

Credit: 1

Term: Spring

Elective

Prerequisite: Successful completion of Animal Science I

This course can be taken any semester after successful completion of Animal Science I. The course will include the following topics: anatomy of animals, general procedures, types of injections, grooming, and general care of companion animals and livestock. This is a one semester course.

Food Science

Grade: 9-12

Credit: 1

Term: Fall

Elective

Prerequisite: Successful completion of or concurrent enrollment in Introduction to Agriculture I

Any student may enroll in Food Science if they have completed or are simultaneously enrolled in Introduction to Agriculture I. The course will include the following topics: safety and sanitation in the food industry, nutrition, food products, and processing. Labs will be included where students will be able to create different foods. This is a one semester course.

Landscape Design

Grade: 9-12

Credit: 1

Term: Spring

Elective

Prerequisite: Successful completion of Introduction to Agriculture I

Any student may enroll in Landscape Design if they have completed Introduction to Agriculture I. During this course, students will design/implement landscape designs, learn about turf and lawn care, and practice plant identification. This is a one semester course.

Ag Business I

Credit: 1

Elective

Grade: 10-12

Term: Fall

Prerequisite: Successful completion of Introduction to Agriculture II or instructor approval

This course is designed for 10th through 12th grade students. The course will include the following topics: ag sales and marketing, job interview skills, and basic recordkeeping. This course will prepare students to seek future employment opportunities in Ag Business. *(Other grades by permission of instructor)*

Ag Business II

Credit: 1

Elective

Grade: 10-12

Term: Spring

Prerequisite: Successful completion of Ag Business I

This course is designed for 10th through 12th grade students and can be taken any spring semester after successful completion of Ag Business I. The course will include the following topics: ag sales and marketing, job interview skills, and basic recordkeeping. This course will prepare students to seek future employment opportunities in Ag Business. *(Other grades by permission of instructor)*

Southwestern Community College Dual Enrollment Options

This semester-long agriculture course is available for qualifying students who meet the SWCC Concurrent Enrollment requirements. Talk to a counselor to learn more.

AGA 114 - Principles of Agronomy

Credit: 1 HS / 3 College

Elective

Grade: 9-12

Term: Semester

Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

A foundation course in agronomy applying crop, soil, and environmental sciences in understanding agricultural systems in the world. Includes introductory concepts of plant, soil, tillage, pest, environmental, and sustainable aspects of crop production. The laboratory portion of the course will consist of hand-on learning experiences via the college farm, field trips, or the utilization of interactive computer-based programs.

BUSINESS EDUCATION

Accounting I

Grade: 9-12

Credit: 1

Term: Fall

Elective

This course introduces and expands upon the fundamental accounting principles and procedures used in businesses. Course content 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 and other automated tools are used. Specific focus on accounting for a service business organized as a proprietorship.

Accounting II

Grade: 9-12

Credit: 1

Term: Spring

Elective

This course is a continuation of Accounting I which introduces and expands upon the fundamental accounting principles and procedures used in businesses. Students will continue to learn about the 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 and other automated tools are used. Accounting II specifically focuses on accounting for a merchandising business organized as a partnership.

Introduction to Business

Grade: 9-12

Credit: 1

Term: Fall

Elective

Students will survey an array of topics and concepts related to the field of business. The course will introduce business concepts such as banking and finance, the role of government in business, business ethics, marketing, entrepreneurship, and management. Students will also be provided with a brief overview of the American economic system and corporate organization. **This course is highly recommended before taking Small Business Management with SWCC.**

Marketing

Grade: 9-12

Credit: 1

Term: Fall

Elective

This course teaches students to market themselves as well as their business ideas. Sales and marketing concepts are important to everyone. The skills students learn in this course are used to understand and promote individual and business ideas. The class focuses on the psychology of consumer decision making, and deciphers each area of the marketing mix: place, product, price, and promotion.

Principles of Management

Grade: 9-12

Credit: 1

Term: Spring

Elective

This course is designed to be an overview of the major functions of management. Emphasis is on planning, organizing, controlling, directing, and communicating. Upon completion, students should be able to work as contributing members of a team utilizing these functions of management.

Personal Finance I

Grade: 11-12

Credit: 1

Term: Semester

Required

Personal Finance is a required course that provides students with an understanding of the concepts and principles involved in managing one's personal finances. Topics include: banking (checking and savings), retirement, credit (types and managing), FAFSA, and taxes.

Personal Finance II

Grade: 11-12

Credit: 1

Term: Semester

Elective

Prerequisite: Successful completion of Personal Finance I

This course is a continuation of Personal Finance I that provides students with an understanding of the concepts and principles that involve managing one's personal finances. Topics include: paying for college, budgeting, behavioral economics, insurance, investing, and consumer skills.

Sports and Entertainment Marketing

Grade: 9-12

Credit: 1

Term: Spring

Elective

Prerequisite: Marketing

This course provides students with a thorough understanding of fundamental marketing concepts and theories as they relate to the sports and entertainment industries. Topics include: promotion of sports/events, licensing, sponsorship and endorsements, branding, marketing, research, product development, pricing and distribution strategies, sales, event planning, and the role of existing and emerging technologies.

Computer Science Basics

Grade: 9-12

Credit: 1

Term: Spring

Elective

This course provides students with foundational skills in problem-solving, software, and algorithms. The course includes topics in maintaining privacy, safety, and security when using computers and while being innovators of new computing applications. The course allows students to discover the powers of computer science through rewarding yet challenging concepts. **This course does not count towards the CTE credit requirement.**

Southwestern Community College Dual Enrollment Options

These semester-long business courses are available for qualifying students who meet the SWCC Concurrent Enrollment requirements. Talk to a counselor to learn more.

BUS 121 - Business Communications

Grade: 9-12

Credit: 1 HS / 3 College

Term: Semester

Elective

Prerequisite: ENG 101 Elements of Writing or minimum ACCUPLACER sentence structure score of 86, Must meet SWCC Concurrent Enrollment Requirements

This course is a study of communications for the typical business situation. Topics to be covered are reports and letters of inquiry, orders, credit, collections, sales, and handling disputes.

MGT 110 - Small Business Management

Credit: 1 HS / 3 College

Elective

Grade: 9-12

Term: Semester

Prerequisite: Must meet SWCC Concurrent Enrollment Requirements,

High school Intro to Business highly recommended

This course introduces the student to various types of small business opportunities. Students will use concepts from the course to develop a business plan designed to guide the startup of a new business. The course also covers topics relevant to small business management, including marketing, operational management, financial management, human resource management, and regulations.

FAMILY AND CONSUMER SCIENCES

Foods I

Grade: 9-12

Credit: 1

Term: Fall

Elective

In this course, students learn the management and culinary skills needed for a career in the foodservice industry. Within the course, students will learn aspects of safety and sanitation, communication, management, and customer service as well as basic culinary skills. Lab experiences will include soups, sauces, fruits, vegetables, and grains. Practical experiences will be gained as students offer various meals and snacks in conjunctions with other classes through the culinary programs's Westside Cafe. Additionally, students will engage in various food competitions within the school's culinary program. This course is a prerequisite for Foods II.

Maximum class size: 20.

Foods II

Grade: 9-12

Credit: 1

Term: Spring

Elective

Prerequisite: Successful completion of Foods I

Emphasis in this course is on restaurant business management as well as expanding culinary skills. Lab experiences include pastas, meat, poultry, seafood, yeast doughs, plating, and garnishing. Practical experiences will be gained as students offer various meals and snacks in conjunction with other classes through the culinary program's Westside Cafe. Additionally, students will engage in various food competitions within the school's culinary program.

Maximum class size: 20.

Baking I

Grade: 10-12

Credit: 1

Term: Fall

Elective

Prerequisite: Successful completion of or concurrent enrollment in Foods I

This is an advanced level culinary course with challenging content. Students will need to work flexibly with both standard and metric units of measure as well as learn and utilize advanced terminology. This course prepares students for a career in culinary arts, with a special emphasis on the Baking and Pastry strand of restaurant and foodservice management. Food and workplace safety are an integral part of the class instruction. Units of study include: ingredient function, pastry basics, quick breads, yeast breads, and chocolate. This course is a prerequisite for Baking II. **Maximum class size: 20.**

Baking II

Grade: 10-12

Credit: 1

Term: Spring

Elective

Prerequisite: Successful completion of Baking I

Baking II is a continuation of Baking I, which prepares students for a career in culinary arts, with a special emphasis on the Baking and Pastry strand of restaurant and foodservice management. Food and workplace safety continue to be an integral part of instruction. Units include but are not limited to: cookies; tarts; cake mixing, baking, and decorating; frozen desserts; custards; and pies. **Maximum class size: 20.**

Prep & Production I

Credit: 1

Elective

Grade: 9-12

Term: Fall

Prerequisite: Successful completion of any 2 foods or baking courses

In this course, students will further develop skills learned in previous culinary courses related to commercial food preparation and production. Strong emphasis will be placed on developing nutritional menus and producing a variety of culinary options that support balanced diets. Specific topics include large scale preparation and production, presentation, service skills and catering. **Maximum class size: 20.**

Prep & Production II

Credit: 1

Elective

Grade: 9-12

Term: Spring

Prerequisite: Successful completion of any 2 foods or baking courses

This course is a continuation of Prep & Production I. Students will continue to develop skills related to menu planning to support balanced diets. Specific topics include large scale preparation and production, presentation, service skills and catering. **Maximum class size: 20.**

INDUSTRIAL TECH

Introduction to Engineering Design

Grade: 9-12

Credit: 1

Term: Fall

Elective

Introduction to Engineering Design is a fundamental drafting course that will provide the basic skills needed to pursue advanced courses in the program. Concepts covered include: reading and scaling techniques, geometric construction, orthographic views, dimensioning and sectional views. Computer-aided design (CAD) is also introduced. **Successful completion of this course is a prerequisite to Engineering Design Technology and Material Processing Technology. Maximum class size: 10.**

Engineering Design Technology

Grade: 9-12

Credit: 1

Term: Spring

Elective

Prerequisite: Successful completion of Introduction to Engineering Design

EDT is the last course in the Engineering Design series. This is an advanced course for more in depth study of mechanical and working drawings. Concepts include: tolerance keyways, gears and cams, weld assemblies, piping components, assembly drawings and animation of components. Manual and computer drawing techniques will be used in this course. **Maximum class size: 10.**

Introduction to Manufacturing

Grade: 9-12

Credit: 1

Term: Fall

Elective

Manufacturing provides the study of materials and processes used in industry. Areas of study will include sheet metal construction, oxy-acetylene and arc welding, machining on the lathe, foundry casting, and forging which includes heat treating and tempering. Laboratory experiences will enhance classroom activities through hands-on projects. A fee for some materials will be assessed to the student. **Maximum class size: 14.**

Advanced Manufacturing

Grade: 9-12

Credit: 1

Term: Spring

Elective

Prerequisite: Successful completion of Introduction to Manufacturing

Advanced Manufacturing is designed for more in-depth study of the manufacturing processes. Areas of study will include design and layout of sheet metal patterns, experience with various welding technologies (Gig, Tig), machine tool processes, precision measurement, foundry pattern design and mold production and foreign processes. A fee will be assessed to the student. **Maximum class size: 14.**

Electricity

Grade: 10-12

Credit: 1

Term: Semester

Elective

This course is designed for students interested in exploring a career in the electricity or electronics field. Areas of discussion will include: electrical safety; electron theory; characteristics of resistors and circuit breakers; Ohm's law; and series, parallel, and combination circuits. **Maximum class size: 15.**

Material Processing Technology

Credit: 2

Elective

Grade: 10-12

Term: Year

Prerequisite: Intro to Engineering Design

Material Processing Technology is a yearlong course where students will study the following areas.

1. Basic shop and safety practices: personal safety equipment, general safety and equipment practices, maintaining a safe work environment, and maintaining equipment.
2. Design and Problem Solving: Utilizing design processes and problem-solving strategies, working with and editing working drawings, material estimating.
3. Development Skill Competencies: The use of rubric skill sheets are used to develop layout work, tool and technique selection, assembly and finishing techniques, and materials.
4. Careers and Society: Exploration of woodworking careers and industry, lumber's impact on the environment.

Small project work is incorporated into the course to reinforce curriculum.

WORK EXPERIENCE

iJAG (Iowa Jobs for America's Graduates)
Grade: 9-12

Credit: 1
Term: Semester

Elective

Introduction to iJAG, a career exploration and preparation program, provides an educational, hands-on approach to exploring personal strengths and weaknesses. Students will work to build strengths in academic areas, time management, learn about personality and temperament, understand communication models for personal and career use, identify values and understand the relationship between personal actions and consequences that follow. Students will make connections to their career interests, abilities and aptitudes by determining their education and career goals. Students will be able to demonstrate core competency attainment.

This course is intended to be taken through senior year. Limit 50 students per year.

Multioccupations (MOC)

Grades 11-12

Prerequisites: Application, Instructor and School Counselor approval

Credit: 1

Term: Semester

Elective

The MOC course is designed for students looking for real life job experience at a local business. The students are matched to a job that matches their interests and/or qualifications. The student meets with the MOC coordinating teacher once a week for progress reports and information. The student is evaluated bi-weekly by their supervisor.

Students must be on target for graduation. Juniors may request MOC for 2 periods per day. Seniors may request MOC for 4 periods per day.

Media Tech Work Experience

Grades: 11-12

Prerequisites: Application & Administrative approval

Credit 1

Term: Semester

Elective

This work experience course engages students in learning in the field of multimedia productions. With support from the instructor, students will work collaboratively with various school staff to complete projects that facilitate the daily operations within the school district. Students will develop communication skills, project management skills, problem-solving techniques, and cooperative learning skills. Production areas include: Digital signage content creation, video board content creation, and advertisements. Core sub-competency areas include: graphic design, video production, marketing, and writing. **Maximum class size: 10.**

SWCC CAREER ACADEMIES & PATHWAYS

Criminal Justice

Criminal Justice Pathway: This pathway gives students a chance to explore various courses in criminal justice and helps prepare students for an exciting and rewarding career in various areas such as law enforcement, courts, and/or corrections. A career in criminal justice gives individuals an opportunity to make contributions to their community and society while providing variety and new challenges on a daily basis. *These courses do not replace the training requirements of the Iowa Law Enforcement Academy.*

CRJ 100 - Introduction to Criminal Justice (face to face only) Credit: 1 HS / 3 College Elective
 Grade: 9-12 Term: Semester
 Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

This course will offer an introduction to the varying and ever evolving fields in criminal justice with primary emphasis on the three main areas of the criminal justice system: police, courts, and corrections. The student will gain a realistic understanding of the various fields and career opportunities in criminal justice while learning of the interactions and complexities of each area. Further, this course will challenge students to think critically about the concept of justice.

CRJ 111 - Police & Society (face to face only) Credit: 1 HS / 3 College Elective
 Grade: 9-12 Term: Semester
 Prerequisite: CRJ 100 Introduction to Criminal Justice, Must meet SWCC Concurrent Enrollment Requirements

In this course, students will examine police as an instrument of society's order maintenance and control. This course utilizes a multiple causation model to explain police issues, integrating six core elements: history, role, socialization, culture, function, and experience. Students study police history, police role and organization, the making of a police officer, police behavior, stress, the delivery of effective police services, and the future of law enforcement.

CRJ 200 - Criminology (face to face only) Credit: 1 HS / 3 College Elective
 Grade: 9-12 Term: Semester
 Prerequisite: CRJ 100 Introduction to Criminal Justice or SOC 110 Introduction to Sociology, Must meet SWCC Concurrent Enrollment Requirements

This course is an introductory course in the field of criminology. The course examines topics including history, nature, and theories of crime causation, crime typologies, the criminal justice system, and issues related to current crime causation, crime typologies, the criminal justice system, and issues related to current crime trends in America. The criminal behavior patterns include violent crimes, property crimes, white-collar crimes, cybercrimes, organized crimes and public order crimes.

Education

Teacher Prep Academy: The Teacher Prep Academy provides students an opportunity to earn credits towards teacher certification. Talk with a counselor to help determine the best options for you based on the grade level or content area you wish to teach and future college plans.

Teacher Prep Academy courses offered online:

- [ENG 105 Composition I \(see page 12 for description\)](#)
- [PSY 111 Introduction to Psychology \(see page 20 for description\)](#)
- [PSY 121 Developmental Psychology \(see page 21 for description\)](#)

Teacher Prep Academy courses (face to face): Intro to Education, Observation in Teaching I, Exceptional Learner

EDU 213 - Introduction to Education

Credit: 1 HS / 3 College

Elective

Grade: 9-12

Term: Semester

Prerequisites: ENG 105 Composition I is highly encouraged, Must meet SWCC Concurrent Enrollment Requirements

This introductory course in education will provide opportunities for the student to gain a fundamental understanding of what is involved in a teaching career. Topics include, but are not limited to, current issues in education, school law, and ethics. Also, it is designed to familiarize students who may not enter the teaching profession with some basic educational principles which will enable them to contribute more adequately to the total educational system. Students will be required to complete 15 hours of observation in a K-12 classroom as part of this course.

EDU 245 - Exceptional Learner

Credit: 1 HS / 3 College

Elective

Grade: 9-12

Term: Semester

Prerequisites: EDU 213 Introduction to Education, Must meet SWCC Concurrent Enrollment Requirements

This course provides an overview of special education regulations, policies and programs in educational settings. K-12 pre-service teachers learn the history of special education law, including IDEA and as it applies to NCLB, characteristics of the eight categories of disability per federal and state regulations, characteristics of talented and gifted programs, and basic components of an IEP. This course is a required component for students seeking K-12 teacher state licensure.

EDU 151 - Observation in Teaching I

Credit: 1 HS / 1 College

Elective

Grade: 9-12

Term: Semester

Prerequisites: EDU 213 Introduction to Education, Must meet SWCC Concurrent Enrollment Requirements

This course will provide opportunities to enhance understanding of the teaching profession and assist with decisions to pursue a career in education. Students will spend time observing K-12 classroom teaching with a licensed educator to gain insights and better understanding of the teaching and learning process.

Early Childhood Education Pathway: The following courses are offered online for students interested in early childhood education for preschool, infants and toddlers. Completing four of these courses is the first step in earning a Child Development Associate (CDA) credential. Students must also complete 480 hours of professional experience in the candidate's CDA age group within 3 years of applying for the CDA. *The final course, ECE 106, must be completed after graduation.* Talk with a counselor about how this pathway can work for you!

CDA Required Courses:

ECE 103 Intro to Early Childhood Education
ECE 133 Child Health, Safety, and Nutrition
ECE 243 Early Childhood Guidance

Choose ONE of the following:

ECE 221 Infant Toddler Care and Education
ECE 158 Curriculum I
ECE 159 Curriculum II

ECE 103 Introduction to Early Childhood Education Credit: 1 HS / 3 College Elective
Grade: 9-12 Term: Semester
Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

This course gives students a historical and philosophical foundation of the field of early childhood education. It includes an overview of assessment and evidence-based practices. The course also addresses the influences of family-centered practice, inclusion, culture and language. Students explore early childhood careers.

ECE 133 Child Health, Safety, and Nutrition Credit: 1 HS / 3 College Elective
Grade: 9-12 Term: Semester
Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

This course focuses on evidence-based concepts in the fields of health, safety, and nutrition, and their relationship to the growth and development of the young child ages birth to eight. It blends current theory with problem-solving, practical applications and assessments. Course content includes collaboration with families and assesses the role of culture, languages and ability on health, safety, and nutrition decisions in early childhood settings. Students will need to complete or provide proof of current certification in the following: Mandatory Child Abuse Reporter training; Universal Precautions/Bloodborne Pathogen trainings; Infant, Child, and Adult CPR; Pediatric and Adult First Aid training.

ECE 158 Early Childhood Curriculum I Credit: 1 HS / 3 College Elective
Grade: 9-12 Term: Semester
Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

This course focuses on the development, implementation, and assessment of appropriate environments and curricula for young children ages three through eight years old. Students prepare to utilize evidence-based, developmentally appropriate practices in the context of children's family, culture, language, and abilities. Emphasis is on understanding children's developmental stages and developing appropriate learning opportunities, interactions and environments to support each child in the following areas: dramatic play, art, music, fine and gross motor play.

ECE 159 Early Childhood Curriculum II Credit: 1 HS / 3 College Elective
Grade: 9-12 Term: Semester
Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

This course focuses on the development, implementation, and assessment of appropriate environments and curricula for young children ages three through eight years old. Students prepare to utilize evidence-based, developmentally appropriate practices in the context of children's family, culture, language, and abilities. Emphasis is on understanding children's developmental stages and developing appropriate learning opportunities,

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interactions and environments to support each child in the following areas: emergent literacy, math, science, technology and social studies.

ECE 221 Infant/Toddler Care and Education

Credit: 1 HS / 3 College

Elective

Grade: 9-12

Term: Semester

Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

This course focuses on the care, education, and assessment of children from birth to thirty-six months. The course prepares students to utilize developmentally-appropriate, evidence-based practices, including responsive caregiving, routines as curriculum, collaborative relationships with culturally, linguistically, and ability-diverse children and families and a focus on the whole child in inclusive settings.

ECE 243 Early Childhood Guidance

Credit: 1 HS / 3 College

Elective

Grade: 9-12

Term: Semester

Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

This course focuses on developmentally appropriate, evidence-based approaches and positive guidance strategies for supporting the development of each child. It emphasizes supportive interactions and developmentally appropriate environments as well as the use of assessment to analyze and guide behaviors. Students study the impact of family and each child's culture, language, and ability on child guidance.

Information Technology Systems Networking Academy

Information Technology Systems Networking Certificate: This certificate program consists of 13 credits and provides students with the opportunity to learn basic skills to install, configure, manage, and maintain a networking operating system. The certificate can be stacked and earned credits can be applied to the information technology system networking diploma and information technology systems networking Associate of Applied Science Degree at SWCC. Additional coursework is provided to support students wishing to pursue further studies in systems networking or go into the programming field.

ITSN Certificate Requirements: *Students must maintain a 2.0 GPA and complete all 13 credits.*

CIS 630 - Introduction to Powershell

Grade: 9-12

Prerequisites: Must meet SWCC Concurrent Enrollment Requirements

Credit: 1 HS / 1 College

Term: Semester (Fall)

Elective

This course is designed as a general introduction to Windows Powershell script writing and batch filing. Students will learn to use Powershell and batch files scripts to automate Windows tasks.

CIS 650 - PC Operating Systems

Grade: 9-12

Prerequisites: Must meet SWCC Concurrent Enrollment Requirements

Credit: 1 HS / 3 College

Term: Semester (Spring)

Elective

A course in resource and file management on small computer systems. The course will survey techniques used to manage secondary storage. The students will also learn the nuances of installing and managing resources and users in a PC environment. An in-depth study will be made of drivers, controllers, and external and internal operating systems commands. Rudimentary introductions to the registry, batch programming, and systems programming with other languages will also be included.

NET 122 - Computer Hardware Basics

Grade: 9-12

Prerequisites: Must meet SWCC Concurrent Enrollment Requirements

Credit: 1 HS / 3 College

Term: Semester (Fall)

Elective

Students will be trained to properly install, configure, upgrade, troubleshoot, and repair microcomputer hardware. This will include having basic knowledge of desktop and portable systems, basic networking concepts, and printers. Students will also be asked to demonstrate knowledge of safety and common preventive maintenance procedures.

NET 132 - Operating Systems Software Basics

Grade: 9-12

Prerequisites: NET 122 Computer Hardware Basics, Must meet SWCC Concurrent Enrollment Requirements

Credit: 1 HS / 3 College

Term: Semester (Fall)

Elective

This course provides students with the knowledge and skills that are needed to identify PC network components, network structures, and network topologies. Emphasis will be placed on: function, structure, operating systems, and file management. Students will receive hands-on experience with installation, configuration, and upgrading systems and networks.

NET 212 - CISCO Networking

Credit: 1 HS / 3 College

Elective

Grade: 9-12

Term: Semester (Spring)

Prerequisites: Must meet SWCC Concurrent Enrollment Requirements

The course addresses the latest skills needed by network technicians, such as basic principles on how to install, upgrade, troubleshoot, and secure networks. The course covers network technologies, media and topologies, devices management, tools, and security. This course will assist in preparing students for a career in networking support or administration or academic training.

Additional Courses: The following courses are recommended for further study but are not required for the certificate. These courses are required for SWCC's ITSN diploma programs. Students must maintain a 2.0 GPA for the program. See a counselor to determine which courses fit the diploma program you wish to pursue.

- [ENG 105 Composition I \(see page 12 for description\)](#)
 - [PSY 111 Introduction to Psychology \(see page 20 for description\)](#)
 - [MAT 156 - Statistics \(see page 15 for description\)](#)
-

CSC 110 - Introduction to Computers

Credit: 1 HS / 3 College

Elective

Grade: 9-12

Term: Semester (Fall)

Prerequisite: Keyboarding skills, Must meet SWCC Concurrent Enrollment Requirements

This course is an introductory course that surveys a variety of topics to include history, hardware, software, terminology, communications, computer ethics, and societal impact of computers. In addition to computer literacy, students will complete hands-on modules using cooperating systems, word processing, database, presentation, and spreadsheet software, such as Microsoft Office programs.

Nursing

Nurse Assisting Career Academy (CNA): The certificate in nursing assisting prepares students for employment as a certified nursing assistant (CNA). The program combines classroom instruction with clinical laboratory practice and long-term care and/or acute care experience. Students who complete the program are eligible to take a written and hands-on skills examination to become certified as a CNA. Additional coursework is provided to further strengthen a student's foundation in the health science field, including medical terminology and pharmacology basics.

CNA Requirements: *Intro to Health Occupations, Medical Terminology, Nurse Aide, and Pharmacology Basics. Students must maintain a 2.0 GPA and complete all 12 credits.*

HSC 110 - Introduction to Health Occupations	Credit: 1 HS / 3 College	Elective
Grade: 9-12	Term: Semester	
Prerequisite: Must meet SWCC Concurrent Enrollment Requirements		

This course is designed to offer students an opportunity to explore health-related professions.

HSC 114 - Medical Terminology	Credit: 1 HS / 3 College	Elective
Grade: 9-12	Term: Semester	
Prerequisite: Must meet SWCC Concurrent Enrollment Requirements		

Medical Terminology is the language of medicine. This course is designed to utilize word parts (prefixes, suffixes, word roots, etc.) in the construction and analysis of medical terms. The course introduces medical terms, eponyms, acronyms, and abbreviations in a structured anatomical approach. Emphasis is placed on word analysis, spelling, definition, pronunciation, and usage of medical terms. *This course is a prerequisite for Nurse Aide.*

HSC 172 - Nurse Aide	Credit: 1 HS / 3 College	Elective
Grade: 9-12	Term: Semester	
Prerequisite: HSC 110 - Introduction to Health Occupations, criminal background check, Must meet SWCC Concurrent Enrollment Requirements		

This course builds upon the topics in HSC 110 Introduction to Health Occupations. Students will complete the 75 hour Nurse Aide training and will be eligible for certification testing.

PNN 208 - Pharmacology Basics	Credit: 1 HS / 3 College	Elective
Grade: 9-12	Term: Semester	
Prerequisite: Must meet SWCC Concurrent Enrollment Requirements		

This course enables the student to learn basic principles of drug therapy, including related terminology and legislation, drug properties, and the care provider's role and responsibility for the patient receiving drug therapy. *Recommended for pre-nursing students.*

LPN and RN Pathways: Students who plan to pursue nursing certification - Licensed Practical Nursing (LPN) and Registered Nursing (RN) - are able to take various prerequisite and corequisite courses as outlined below. *These courses by themselves do not lead to certification but prepare students for entry into nursing programs after high school.*

Corequisites: The following courses may be taken prior to entry to or during the LPN program. Student must maintain a 2.0 GPA.

- [ENG 105 Composition I \(see page 12 for description\)](#)
- [PSY 111 Introduction to Psychology \(see page 20 for description\)](#)
- [PSY 121 Developmental Psychology \(see page 21 for description\)](#)

Prerequisites: The following courses must be completed prior to entry into the LPN program. Student must maintain a 2.0 GPA.

- BIO 151 Nutrition and BIO 162 Essentials of Anatomy and Physiology
OR
- BIO 168 Human Anatomy and Physiology I w/lab and BIO 173 Human Anatomy and Physiology II w/lab

BIO 151 - Nutrition

Credit: 1 HS / 3 College

Elective

Grade: 9-12

Term: Semester

Prerequisites: 1 year of high school Chemistry or CHM 112 Introduction to Chemistry or instructor approval; Must meet SWCC Concurrent Enrollment Requirements

Study of an individual's health as related to the influence of nutrients and energy metabolism. Emphasis is on normal nutrition, although discussion of nutrition during disease is included. **Designed for students in health-related fields.**

BIO 168 - Human Anatomy and Physiology I w/lab

Credit: 1 HS / 4 College

Elective

Grade: 9-12

Term: Semester

Prerequisites: BIO 105 Introductory Biology or BIO 112 General Biology I or 1 year of high school Biology AND CHM 112 Introduction to Chemistry or 1 year of high school Chemistry; Must meet SWCC Concurrent Enrollment Requirements

This course is a study of the structure and function of the human body with combined lecture and laboratory. This is the first semester of a two-semester course. Major topics addressed include levels of organization, basic chemistry and metabolism, cytology and histology. The systems covered include the integumentary, skeletal, muscular, nervous, and endocrine along with brief associated pathology of each system. Laboratory includes study of both gross and microscopic structure and function with organ and cat dissection included. **Designed for students in health-related fields.**

BIO 173 - Human Anatomy and Physiology II w/lab

Credit: 1 HS / 4 College

Elective

Grade: 9-12

Term: Semester

Prerequisites: BIO 105 Introductory Biology or BIO 112 General Biology I or 1 year of high school Biology AND CHM 112 Introduction to Chemistry or 1 year of high school Chemistry; Must meet SWCC Concurrent Enrollment Requirements

This course is a study of the structure and function of the human body with combined lecture and laboratory. This is the second semester of a two-semester course. Major topics addressed include blood and cardiovascular system, lymphatic system, respiratory system, digestive system, urinary system, and the reproductive system, along with brief associated pathology of each system. Laboratory includes study of both gross and microscopic structure and function with organ and cat dissection included. **Designed for students in health-related fields.**

Welding Technology

Welding Academy: The welding academy is a welding technology certificate program that provides students with basic welding and thermal cutting skills. Students will also learn to operate shop tools, identify different metals, and interpret blueprints. Safety skills are also emphasized. After graduation, this certificate can be stacked and earned credits can be applied to the welding technology diploma and welding technology AAS degree at SWCC.

Certificate in Welding Technology Requirements: General Industry Safety; Welding Blueprint Reading; Introduction to Fabrication; Introduction to Oxyacetylene Welding, Cutting and Brazing; Introduction to Shielded Metal Arc Welding (SMAW). Students must maintain a 2.0 GPA and complete all 12 credits.

IND 114 - General Industry Safety

Grade: 9-12

Credit: 1 HS / 1 College

Term: Semester

Elective

Prerequisite: Must meet SWCC Concurrent Enrollment Requirements

This course provides instruction on general industry safety and health topics. The course will provide students with the knowledge to recognize the hazards of the workplace and to work safely in or around such hazards.

WEL 111 - Welding Blueprint Reading

Grade: 9-12

Credit: 1 HS / 3 College

Term: Semester

Elective

Prerequisites: Must meet SWCC Concurrent Enrollment Requirements

A course concerned with basic fundamentals of interpreting drafting as applied in the welding trade. Emphasis is placed on developing the ability to interpret blueprints from which the welder must work. Special emphasis is placed on lines, views, material descriptions, welding symbols, and terms.

WEL 114 - Introduction to Fabrication

Grade: 9-12

Credit: 1 HS / 3 College

Term: Semester

Elective

Prerequisites: Must meet SWCC Concurrent Enrollment Requirements

This course develops the skills needed in a manufacturing atmosphere such as tool usage, layout methods and material estimating.

WEL 139 - Intro to Oxyacetylene Welding, Cutting and Brazing

Grade: 9-12

Credit: 1 HS / 2 College

Term: Semester

Elective

Prerequisites: Must meet SWCC Concurrent Enrollment Requirements

This course provides a thorough technical understanding of metallurgy, oxyacetylene welding, flame cutting and brazing fundamentals. Students will develop understanding of weld hazards and safety procedures throughout the course.

WEL 162 - Intro to Shielded Metal Arc Welding

Grade: 9-12

Credit: 1 HS / 3 College

Term: Semester

Elective

Prerequisites: Must meet SWCC Concurrent Enrollment Requirements

This course provides a thorough technical understanding of shielded metal arc welding fundamentals, weld hazards and weld safety, power sources and electrode selection. Provides ample time and direction to develop skills necessary to make high quality welds on 16 gauge to 1/4" mild steel in all positions.

HIGH SCHOOL VS. COLLEGE COMPARISON

Students should be aware of differences between high school and college courses. Expectations and provided support differ between the two and are outlined in the chart below. Students should discuss these differences and the tips for being a successful college student with their parents and the school counselor to help determine if the student has the necessary skills required to successfully complete college course work.

HIGH SCHOOL COURSES	COLLEGE COURSES
Homework: Teachers check your completed homework.	Homework: Instructors assume that you have completed your homework and may not always check it. They will, however, assume you will be able to perform the same work on a test.
Assignments/Class Notes: Teachers remind you of incomplete assignments. Reading assignments may be discussed and retaught in class. Teachers often write information on the board to be copied into class notes.	Assignments/Class Notes: Instructors assume you are mature enough to take responsibility for assignments and may not remind you of missing work. Reading assignments may be both frequent and lengthy, and the material may not be covered in class. Instructors may lecture nonstop, expecting you to identify the important points and to write these in your class notes without directions.
Assistance: If teachers are concerned and believe you may need assistance, they may approach you.	Assistance: Instructors are usually helpful and willing to offer assistance, but they expect contact to be initiated by you.
Absences: Teachers often provide you with information you missed when an absence occurs.	Absences: Instructors expect you to obtain any missed class notes or assignments from your classmates. Excessive absences may result in a lower course grade.
Textbooks: Teachers present information to help you understand the material in your textbook.	Textbooks: Instructors may not always follow the textbook. Instead, they expect you to read the assignment before class and may provide background information or illustrations and expect you to incorporate these with your assigned reading.
Due Dates and Reminders: Teachers often remind you of tests and assignment due dates.	Due Dates and Reminders: Instructors expect you to read and refer to the course syllabus for test and assignment due dates.
Tests/Make-up Tests: Tests are given frequently on small amounts of material. Make-up tests are sometimes offered.	Tests/Make-up Tests: Testing may not occur often, and your course may only have two or three tests over the semester. You are expected to organize the material and your class notes to prepare for the test. Instructors seldom make available make-up test opportunities. If a make-up test is an option, it is up to you to request it. End of course tests cover material from the entire course and are frequently two hours in length.
Grades/Final Course Grade: Grades are given for almost all work assigned. Homework grades and extra credit opportunities may help raise your overall class grade when test grades are low.	Grades/Final Course Grade: Grades are not necessarily provided for all assigned coursework. The final grade is usually determined by grades on tests and major writing assignments.

Tips for Being a Successful College Student

Syllabus: Read the course syllabus carefully and ask your instructor about any questions you have about the course. The syllabus outlines the course policies and procedures, instructional and assessment methods, and course calendar. It is the student's responsibility to understand the syllabus guidelines. It is essentially an agreement between you and your instructor. Clarify with your instructor any concerns you may have regarding the syllabus.

Attendance: Attend class regularly. Missing class will likely affect your overall achievement. It is the student's responsibility to get notes from other class members or see the instructor for missed work. College instructors are not expected to re-teach concepts due to student absences. If high school activities interfere with a class, inform your instructor ahead of time. Each instructor has his/her own policies regarding late work, acceptance, missed tests, or class participation; most will have a penalty. Extended due dates are typically not allowed.

Time Management: Allow enough time to be successful. Two hours for each hour of class is typical; each course may vary in the amount of homework. Read the textbook and complete all assignments. Study for tests. Don't procrastinate and wait until the day before or the day of a test. An illness or other situations can arise that may get in the way. Keeping up on a regular basis will help you succeed and also be less stressful. Time management, organization and planning are crucial.

NCAA ELIGIBILITY CENTER

It is best for your son or daughter to register with the eligibility center after completion of his or her junior year.

You may check the NCAA Eligibility Center at <https://web3.ncaa.org/ecwr3/>. Scroll to the bottom of the page and follow online instructions to create an account. Complete the form online, and include your credit or debit card information to pay the fee. Then follow instructions to complete the transaction. Print both Copy 1 and Copy 2 of the transcript release form, sign them and give both to your high school counselor. You can print out additional copies of the compelled form for your records.

***NCAA requires that your ACT and/or SAT scores be sent directly to them, use the code 9999 on the test registration form.**

****In January 2023, NCAA Divisions I and II adopted legislation to remove standardized test scores from initial-eligibility requirements for all student-athletes who initially enroll full time on or after August 1, 2023. Check with the NCAA school you plan to attend regarding whether standardized test scores are necessary for admission or scholarship requirements.**