## Southwest Valley Course

## Guide High School

## Students 2021-2022

It is the policy of the Southwest Valley Community School District not to illegally discriminate the basis of race, color, national origin, sex, disability, religion, creed, age, marital status, sexual orientation, gender identity, and socioeconomic status in its educational programs and its employment practices. There is a grievance procedure for processing complaints of discrimination. If you have questions or a grievance related to this policy, please contact the district's Equity Coordinator Chris Fenster, Superintendent of Schools, Southwest Valley Community School District, 904 8th Street, Corning, Iowa, 50841; by phone at 641-322-4242; by email at cfenster@southwestvalley.org

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## Required Courses for Graduation

| SUBJECT AREA | \# credits <br> required | Classes required |
| :--- | :--- | :--- |
| English | 8 | Grades 9-11: Basic Comp I $\left(9^{\text {th }}\right)$, Basic Comp II $\left(10^{\text {th }}\right)$, and 4 sem. <br> English electives <br> Grade 12: Comp I and II or Applied Comp/Modern Literature. |
| Mathematics | 6 | Algebra IA-IB OR Algebra I, Geometry, and math electives |
| Science | 6 | Physical Science $\left(9^{\text {th }}\right)$, Biology $\left(10^{\text {th }}\right)$ electives |
| Social Studies | 7 | Geography and Foundations of Government $\left(9^{\text {th }}\right)$, World History $\left(10^{\text {th }}\right)$, American <br> History $\left(11^{\text {th }}\right)$, Government $\left(12^{\text {th }}\right)$ |
| Physical Education | 4 | 4 semesters-to total 4 credits |
| Health | 1 | Health I or Health II; and CPR training |
| Career Readiness | 1 | Taken in junior or senior year (one semester) |

Note: Exceptions to the Southwest Valley High School required credits may be granted when considered in the best interest of the student. EXAMPLE: Student transfers from another district which requires fewer credits. A student granted such an exception will still be required to meet all requirements regarding subject area credits. No exceptions for state-mandated courses.

## Graduation Requirements and Sequence one full semester class = one credit

 (Example: You need four credits of PE so you will need to complete four semesters of PE) (Math: six semesters of Math $=3$ full years of Math)| Graduation Requirements | \#CR | $9^{\text {th }}$ Grade | $10^{\text {th }}$ Grade | $11^{\text {th }}$ Grade | $12^{\text {th }}$ Grade |
| :---: | :---: | :---: | :---: | :---: | :---: |
| English | 8 | Basic Comp. + English Elective | Basic Comp II + English Elective | English Elective + English Elective | English Comp I \& II $\begin{array}{r} \text { OR } \\ \text { Applied } \\ \text { Communications } \end{array}$ |
| Social Studies | 7 | Geography and Foundations of Government | $\begin{array}{r} \text { World History(1 } \\ \text { sem) + Social } \\ \text { Studies Elective } \end{array}$ | American History | Government |
| Science | 6 | Physical Science | Biology | Full year of elective science | Elective |
| Math <br> Sequences | 6 | Algebra IA Algebra I Algebra I and Geometry | --------Algebra IB | ----------------Geometry ----------------------Algebra II II Geometry and Pre-Calculus | Elective |
| PE | 4 | PE | PE | PE | PE |
| Health | 1 | Health I with CPR | Health II if do not have Health I | Health II if do not have Health I | Health II if do not have Health I |

## Important Information

## SENIOR YEAR PLUS

Current legislation under Senior Year Plus allows students rigorous academic options during high school, for which students passing with a C or $\uparrow$ also earn college credit. Southwest Valley High School offers Concurrent Enrollment, Independent Online Learning, and Career Academies through agreements with Southwestern Community College (SWCC).

Any student signed up for a college credit class, whether it is taught on Corning High School campus or online, must meet all of the entry requirements of Southwestern Community College. The students must have a qualifying ACCUPLACER score predetermined by the community college or an ACT test score of 19. Students can register for the ACCUPLACER exam in the high school counselor's office. Students enrolled in collegecredit courses must also abide by an attendance policy, as established in concordance with college course standards. Students are allowed to take up to 23 credit hours per year through one educational institution.

More information on concurrent college online and Career Academy courses can be found starting on page 36.

Students who wish to pursue other options for college credit can pursue the Post-Secondary Enrollment Option (PSEO). If a student does not successfully complete a PSEO course, the student will be held financially responsible for all tuition, books, and fees, typically totaling around $\$ 500$.

## ELP -- TALENTED AND GIFTED:

Talented and Gifted: Students designated enrolled in the Extended Learning Program (ELP) receive notification from the ELP facilitator in the spring semester. Students that choose to enroll in a college class to fulfill one of the ELP requirements must meet with the ELP facilitator for guidance in choosing courses. The ELP facilitator and student will contact the counselor office with their choices. ELP students may choose from concurrent (SWCC) or Advanced Placement (AP) options.

## ADVANCED PLACEMENT:

Advanced Placement (AP): Southwest Valley CSD offers Advanced Placement courses through Iowa Online AP Academy. Students who desire to enroll must work with the counselor to determine eligibility and work load. Choosing an online AP class takes determination, strong work ethic, and dedication to extra hours of study and practice. Students should be able to navigate an online environment and be able to blog and work with chat groups. The decision to enroll in online AP courses should include serious scrutiny of the rigorous program by student, parents, teachers, counselor, and principal. Students who finish an AP class and would like college credit must complete an AP exam in the spring. The score of AP exams is scaled from 1-5. Students must score a three (3) or $\uparrow$ to be eligible for college credit.

AP Online Academy: ADD and DROP Time Frame: If the student drops an AP class after 10 school days (according to AP Academy start date) the student/parent-guardian are required to pay a $\$ 350$ drop fee.

Courses available through Iowa Online AP Academy

| Course | Prerequisite |
| :--- | :--- |
| AP Biology | High School Biology |
| AP Calculus AB | 4 years of College Prep Mathematics <br> (suggested coursework-Algebra II, <br> Geometry, Pre-Calculus with Trig. |
| AP Chemistry | High School Chemistry |
| AP English Language Composition | At least a "B" in prior English courses |
| AP English Literature and <br> Composition | At least a "B" in prior English courses |
| AP Government | U. S. History |
| AP Macroeconomics (semester) | Algebra II or Math Analysis |
| AP Microeconomics (semester) | Algebra I |
| AP Psychology (semester) | Biology |
| AP Statistics (semester) | Algebra II or Math Analysis |
| AP Spanish | Spanish I, II, III, IV |
| AP U. S. History | At least a "B" in all Social Studies classes |

Name: $\qquad$
STUDENT 4 YEAR PLAN

| Planned Courses | Credits | Planned Courses | Credits |
| :---: | :---: | :---: | :---: |
| Freshman (9) Year |  | Sophomore (10) Year |  |
| English (Basic Comp + elective) | 2 | English (Basic Comp II + elective) | 2 |
| Geography ( $1^{\text {st }}$ sem), Foundations of Government (2 ${ }^{\text {nd }}$ Sem) | 2 | World History (1 sem) + Social Studies Elective | 2 |
| Physical Science | 2 | Biology | 2 |
| Math (Algebra IA, IB, Algebra I, Geom) | 2 | Math (Algebra 1B, Geometry, Algebra II) | 2 |
| PE | 1 | PE | 1 |
| Health | 1 | Elective |  |
| Elective |  | Elective |  |
| Elective |  | Elective |  |
| Elective |  | Elective |  |
| Elective |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Total: | 16 | Total: | 16 |
|  |  |  |  |
|  |  |  |  |
| Junior (11) Year |  | Senior (12) Year |  |
| English (elective + elective) | 2 | English (Applied Communications or Composition 1) | 1 |
| Career Readiness | 1 | English (Applied Communications or Composition 2) | 1 |
| American History | 2 | Government | 1 |
| Science Elective: | 2 | PE | 1 |
| Math Elective: | 2 |  |  |
| PE | 1 |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Total | 16 | Total | 16 |
|  |  |  |  |
|  |  | SWV GRADUATION CREDITS | 56 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Student signature: | Date: | Parent signature: | Date: |
|  |  |  |  |


| Course Listings <br> ENGLISH | \#sem | MATH | \#sem |
| :---: | :---: | :---: | :---: |
| Basic Composition (9) | 1 | Algebra 1A | 2 |
| Basic Composition II (10) | 1 | Algebra 1B | 2 |
| American Literature | 1 | Algebra I | 2 |
| Mythology | 1 | Geometry | 2 |
| Creative Writing | 1 | Principles of Geometry | 2 |
| English Composition I (12)(CC) | 1 | Algebra II | 2 |
| English Composition II (12)(CC) | 1 | Trigonometry/Analytic Geometry | 1 |
| Applied Communications (12) | 1 | Pre-Calculus | 1 |
| Introduction to Literature (CC) | 1 | Core Math | 2 |
| Assisted Reading | 1 | Consumer Math | 2 |
| Novels | 1 | College Statistics (CC) | 1 |
| Modern Short Fiction | 1 | Calculus I (CC) | 1 |
| Poetry (Fall of Even Years) | 1 | Calculus II (CC) | 1 |
| Literature: Social Justice | 1 | College Algebra (CC) | 1 |
| Lit of the Stage (Fall of Odd Years) | 1 |  |  |
| Native American Literature | 1 | SCIENCE |  |
| Writing for Persuasion | 1 | Physical Science (9) | 2 |
| Writing for Communication | 1 | Biology (10) | 2 |
| Dystopian Literature | 1 | Chemistry | 2 |
| British Literature | 1 | Physics | 2 |
| Modern Short Fiction | 1 | Pre-Anatomy | 1 |
|  |  | Anatomy \& Physiology | 1 |
| SOCIAL STUDIES |  | Advanced Chemistry | 2 |
| Geography / Foundations of Gov. | 2 | Aerospace engineering | 2 |
| World History (10) | 1 | Principles of Engineering | 2 |
| American History (11) | 2 | Zoology | 1 |
| American Government (12) | 1 | Marine Science | 1 |
| Micro Economics | 1 |  |  |
| Economics | 1 | FOREIGN LANGUAGE |  |
| Contemporary Issues | 1 | Spanish I | 2 |
| Psychology | 1 | Spanish II | 2 |
|  |  | Spanish III | 2 |
| Business |  | Spanish IV | 2 |
| Introduction to Business | 2 |  |  |
| Accounting I | 2 | HUMAN SERVICES (FCS) |  |
| Accounting II | 2 | Principles of Human Services | 2 |
| Multi Media | 1 | Nutrition and Wellness I | 1 |
| Career Readiness (11) | 1 | Nutrition and Wellness II | 1 |
| Introduction to Computers (CC) | 1 | Culinary Essentials | 2 |
| Computer Business Applications (CC) | 1 | Human Growth \& Development I | 1 |
| School to Work (1 class period) | 1 | Human Growth \& Development II | 1 |
| Introduction to Computer Science | 1 | Consumer and Personal Finance | 1 |
| Workplace Exp. - Business (4 periods) | 1 | Workplace Exp. - FCS (4 periods) | 1 |


| MUSIC |  | AGRICULTURE \& TECHNOLOGY |  |
| :---: | :---: | :---: | :---: |
| Band | 2 | Principles of Ag Science and Technology | 2 |
| Concert Choir | 2 | Basic Soil \& Plant Management | 1 |
| Music Appreciation | 1 | Basic Animal Science and Technology | 1 |
|  |  | Advanced Animal Science and Tech | 1 |
| ART |  | Vet Tech | 1 |
| Drawing | 1 | Ag Business and Management | 1 |
| Painting | 1 | Principles of Ag Business and Sales | 1 |
| Ceramics I | 1 | Agriculture Mechanics | 1 |
| Ceramics II | 1 | Ag Welding | 1 |
| Applied Art | 1 | Horticultural Science and Technology | 2 |
| Art I | 1 | Advanced Horticulture (Spring Offering) | 1 |
| Art II | 1 | Entrepreneurship and Job Seeking Skills | 1 |
| Media | 1 | Agriculture Career Opportunities | 1 |
| Printmaking | 1 | Agriculture Natural Resources | 1 |
|  |  | Farm and Home Maintenance | 1 |
| PHYSICAL EDUCATION |  | Ag Power and Technology (Fall of Odd Years) | 1 |
| Physical Education | 1 | Ag Woodworking | 1 |
| Health I | 1 | Ag Construction | 1 |
| Health II | 1 | Leadership in Agriculture | 1 |
| Weight Lifting | 1 | Mechanical Systems in Ag (Fall of Even Years) | 1 |
|  |  | Ag Carpentry | 1 |
| CAREER ACADEMY (all CC) |  | Ag Workplace Experience (4 periods) | 1 |
| Health Career Academy (1 yr) | $\begin{aligned} & \hline 2 \mathrm{per} \\ & \mathrm{sem} \end{aligned}$ |  |  |
| Computer/Information Technology (2 yr) | $\begin{aligned} & \hline 4 \mathrm{per} \\ & \text { sem } \end{aligned}$ | SPECIAL EDUCATION |  |
| Automotive Technology (2yr) | $\begin{aligned} & \hline 4 \mathrm{per} \\ & \text { sem } \end{aligned}$ | Study Skills | 1 |
| Carpentry/Building Trades (2yr) | $\begin{aligned} & \hline \text { 4 per } \\ & \text { sem } \end{aligned}$ | Experienced-Based Career Education | TBD |
| Electrical Technology (2yr) | $\begin{aligned} & \hline 4 \mathrm{per} \\ & \text { sem } \end{aligned}$ |  |  |
|  |  |  |  |

ENGLISH COURSES

| Course Title | Length | Grade offered | Required/ Elective | Prerequisite | Description |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Novels | 1 sem | 9-11 | Elective |  | Exploration of various novels through style, structure, and historic relevance. |
| American Literature | 1 sem | 11-12 | Elective |  | This course examines the literature of the United States from colonial times through the present, focusing particularly on American ideals and how these are reflected in American literature over time. |
| British <br> Literature | 1 sem | 9-11 | Elective |  | A survey of master works in British Literature |
| Lit of the Stage | 1 sem | 9-11 | Elective |  | Examine the texts of the modern stage, including famous plays (Offered Fall of odd years) |
| Literature: Social Justice | 1 sem | 9-11 | Elective |  | Exploring the theme of social justice in literature |
| Poetry | 1 sem | 9-11 | Elective |  | Exploration of the genre: style, structure, and meaning (Offered Fall of even years) |
| Modern Short Fiction | 1 sem | 9-11 | Elective |  | Exploration of the short story: critical thinking about form, structure, plot and characterization |
| Native American Literature | 1 sem | 9-11 | Elective |  | Exploring the literature and culture of the Native American people, past and present |
| Dystopian Literature | 1 sem | 9-11 | Elective |  | Exploring the themes of literature about a future gone awry |
| Strategic Reading | 1 sem | 9-11 | Elective |  | Students will read and analyze works of fiction and nonfiction that they choose. Crucial skills for this course include note-taking and evaluation of texts. Daily reading and response is required. |
| Mythology | 1 sem | 9-11 | Elective |  | This course examines themes, characters, and texts in the world of mythology. While special emphasis is placed on Greek and Roman mythology, much of the course focuses on myths both older (the ancient Egyptians) and newer (the Norse). Students will be expected to explore these myths in writing, discussion, and various individual and group projects. |
| Basic Composition | 1 sem | 9-11 | Required |  | A basic writing class designed for grades 9-10, this class can be available to $11^{\text {th }}$ graders as well |
| Basic Composition II | 1 sem | 9-11 | Required | Basic Composition | A continuation of Basic Composition that explores more technical and research oriented writing. This class is required but may be taken by $9^{\text {th }}, 10^{\text {th }}$ and $11^{\text {th }}$ grade students. |
| Creative Writing | 1 sem | 9-11 | Elective |  | Creative writing is a semester-long course that explores a broad variety of creative writing genres. Genres covered in this course may include (but are not limited to) poetry, creative nonfiction, short fiction, and short plays. Students will develop writing skills through close and careful reading of genre examples and through daily writing practice. The writing workshop itself, where we share our work with others for constructive criticism and honest |


|  |  |  |  |  | commentary, is a central focus of this course, and revision based on workshop feedback will be required. Students will complete a portfolio of writing over the course of the semester. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Writing for Communication | 1 sem | 9-11 | Elective | Basic Comp | Students focus on writing and presenting for a variety of audiences. |
| Writing for Persuasion | 1 sem | 9-11 | Elective |  | Students will focus on research writing, developing their persuasive skills in thesis-driven essays and debates. |
| Literature of the Stage | 1 sem | 9-11 | Elective |  | This course focuses on the texts of the theater across time. Students will read, analyze and respond to plays ranging from Ancient Greek tragedy to modern productions, focusing on the unique literary qualities of drama. |
| English Composition I (12) SWCC class ENG 105 | 1 sem | 12 | Elective | Qualifying Accuplacer score or ACT (19) | This course offers the students an opportunity to improve written composition and develop skills acceptable on a college freshman level. The various models of composition that are often the focus of the college freshman class will be used extensively in the class. Attendance policy. |
| English Composition II (12) SWCC class ENG 106 | 1 sem | 12 | Elective | Qualifying Accuplacer score or ACT (19) | This class offers college-bound students an opportunity to improve their composition skills through persuasive writing. The term papers are required. Attendance policy. |
| Applied Communications (12) | 1 sem | 12 | Elective | 6 previous English credits | This course is the alternate for seniors not interested in taking the college level composition courses. This class will cover aspects of modern literature as well as composition and writing. |
| Introduction to Literature SWCC class LIT 101 | 1 sem | 11-12 | Elective | Qualifying Accuplacer score or ACT (19) | Students will learn to read critically and do rhetorical and stylistic analysis. The goal of this course is to create strong readers and writers who will have the skills to read and write effectively in their college courses. Students will be asked to read extensively and write several analytical essays. |

MATHEMATICS COURSES

| Course Title | Length | Grade <br> offered | Required/ <br> Elective | Prerequisite | Description |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Algebra IA | 2 sem | $\mathbf{9 - 1 2}$ |  |  | This is the first year of a 2-year algebra course. <br> It will include foundations of core algebra, <br> solving equations and inequalities, and working <br> with functions. Skills will include graphing and <br> variable representations of real-world <br> applications. Problem-solving activities and <br> applications encourage students to model <br> patterns and relationships with variables and <br> functions. |
| Algebra IB | 2 sem | 9-12 |  |  |  |
| Algebra I |  |  |  |  |  |
| Geometry |  |  |  |  |  |


| Course Title | Length | Grade offered | Required/ <br> Elective | Prerequisite | Description |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Principles of Geometry | 2 sem | 10-12 |  | Algebra IA and IB or Algebra I with teacher recommendati on | This course is the Geometry placement for students who have successfully completed Algebra IA and IB. It is not the student's choice to take this course as a replacement for Geometry, it must be based on teacher recommendation. |
| Algebra II | 2 sem | 11-12 |  | Algebra I, Geometry (at least C-) | This class is basically an extension of topics in Algebra I to more advanced topics and their applications. <br> Topics of matrices, probabilities, and statistics will also be explored. It will also include a study of trig the last part of the year as time allows. Evaluation: daily work, quizzes \& tests. Graphing calculators are used. |
| College Algebra SWCC class MAT 120 | 1 sem | 11-12 |  | Algebra I Algebra II Geometry with C- or $\uparrow$ Qualifying aCCUPLACER or ACT | ACT: 19 or $\uparrow$ <br> Qualifying ACCUPLACER score <br> There is also an attendance requirement. <br> This course is the study of advanced algebra and pre-calculus. Topics covered: real number system, functions, graphs, exponential functions, logarithmic functions, complex number system, polynomial functions, matrices, and parametric equations. <br> Taught at SWV by a SWCC instructor. |
| Trigonometry and Analytic Geometry | 1 sem | 11-12 |  | Algebra I <br> Algebra II <br> Geometry <br> with C- or $\uparrow$ | $1^{\text {st }}$ Semester <br> Topics in trigonometry include but are not limited to the measurement of angles, arc, and sectors, the six trigonometric functions and their graphs, trigonometric identities and equations, law of sines and cosines, vectors, complex numbers, and polar coordinates. Topics in geometry include an analytical investigation of the conic sections. Additional topics may include congruence, area, parallelism, similarity, and volume in Euclidean geometry. |
| Core Math | 2 sem | 11-12 |  | Algebra and Geometry | This class will cover required Iowa Core high school math standards including topics in algebra, geometry, statistics, and consumer math. Students should have taken and completed Algebra and Geometry in order to register for this course. Core Math is built to be an independent course to strengthen individual math skills to prepare students for college. |


| Course Title | Length | Grade <br> offered | Required/ <br> Elective | Prerequisite | Description |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Pre-Calculus | 1 sem | $\mathbf{1 1 - 1 2}$ |  |  | Algebra I <br> Algebra II <br> Geometry <br> with C- or $\uparrow$ |

## SOCIAL STUDIES COURSES

| Course Title | Length | Grade offered | Required/ Elective | Prerequisite | Description |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Geography | 1 sem | 9 | Required |  | Geography is a ninth-grade class. It focuses on the areas of physical geography or topography (including oceans, rivers, land masses, islands, etc.), political geography (including regions, continents, countries, capitals, culture, tourism, and governments), and environmental and human geography (the division of the world's natural resources and the pollution that mankind generates and how humans understand, use, and alter the earth's surface). The class makes use of geographic tools such as maps, atlases, and symbols. |
| Foundations of Government | 1 sem | 9 | Required |  | Foundations of Government is a preparatory course for ninth grade to help the students be ready for the more advanced American Government class as juniors or seniors. The class will examine the beginnings of how America became free of England. It will look at how the Declaration of Independence justified the need for freedom from England. The first document of governance, the Articles of Confederation, will be analyzed along with the Constitution (which includes a major emphasis on the Bill of Rights). The students will obtain some basic knowledge about national and state governments and will be given an opportunity to do some projects and debating. |
| World History | 2 sem | 10 | Required |  | World History is the study of mankind and civilization. It is designed to review mankind's development from Prehistoric/Stone Age to post-World War II era. The course covers political developments, social and economic life. |
| American History | 2 sem | 11 | Required |  | American History studies the growth of our nation from the time period after the Civil War (Reconstruction) to the modern era we live in. Through the use of primary and secondary sources, students will explore how our nation has emerged as a world power. They will also make historical connections to their own lives and learn of the sacrifices made by others in our past to help preserve and strengthen our freedoms we enjoy today. |
| American Government | 1 sem | 12 | Required |  | Government is an introduction to the patterns, forms, and functions of our national, state, and local government. Studied are the obligations, rights, and duties of citizens and how the American system works. Students will be exposed to the election process at all levels of government and contemporary problems of the day. |
| Contemporary Issues | 1 sem | 10-12 | Elective |  | The class will focus on current event situations and how the precedents set by past situations affect the outcome of the current events. |


|  |  |  |  | Students will utilize a wide variety of sources to study modern media and various perspectives on issues of the day. Through their studies, students will be informed on the latest current events as well as provide analysis about topics in the world they live in. |
| :---: | :---: | :---: | :---: | :---: |
| Sociology | 1 sem | 10-12 | Elective | The study of cultures and society. This class will include an introduction to the subject as well as specific topics such as deviance, poverty, and aging. If already taken intro to sociology (SWCC course) please consult teacher before enrolling. |
| Micro Economics | 1 sem | 11-12 | Elective | This course covers foundations of personal finance, empowering students to make sound financial decisions for life. This course meets state of Iowa financial literacy requirements. |
| Economics | 1 sem | 11-12 | Elective | This class will study major concepts and theories that economists use to explain why the world is the way that it is. Current events, concerning the U.S. and world stock markets, and other major economic news will also be explored throughout the class. |
| Psychology | 1 sem | 10-12 | Elective | This class will introduce students to the overall topic of psychology. It will include various perspectives, methods of research, and social theories in psychology. The biological basis of psychology will be examined and while not to the extent sociology offers, how outside factors impact the individual, too. While sociology looks more at the group, psychology looks more at the individual. The two classes complement each other, but you need not have taken sociology to take this class. <br> Those who have previously taken the Southwestern Community College course on psychology should probably focus on other classes to sign up for. For those looking to learn more about this interesting topic of study and have not had previous classes on this subject, it would be a great class to sign up for! |

## SCIENCE COURSES

| Course Title | Length | Grade offered | Required/ Elective | Prerequisite | Description |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Physical Science | 2 sem | 9 | Required |  | Physical science is an introductory class in science for 9th grade students. The course covers many areas of the non-life sciences. It is designed to give each student a firm background in understanding the world in which we live. This course is a prerequisite for both physics and chemistry. (These are needed for anyone entering a health care career.) Many experiments and demonstrations are performed during the year. |
| Biology | 2 sem | 10 | Required |  | Biology, the study of life, begins with the cell, and its structure and function. Other topics covered are genetics and inheritance, evolution, the human body and our environment and Ecosystems. |
| Chemistry | 2 sem | 11-12 | Elective | Geometry and Alg II or take concurrent | Chemistry is the science of materials and a study of matter and the interactions of matter. Chemical reactions, structure of the atom, electrochemistry and acid base interactions are studied. This class is required by most colleges for anyone entering family, science or healthrelated programs. |
| Advanced Chemistry | 2 sem | 11-12 | Elective | Chemistry, Geometry, and Alg II | This course is a continuation of the general Chemistry curriculum. Students successfully completing this course will be endowed with an exceptional understanding of the fundamentals of chemistry and achieve proficiency in solving chemical problems. |
| Physics | 2 sem | 12 | Elective | Alg I, Phy Science, Chemistry with C- or $\uparrow$ | Physics is a general introduction to all parts of physics. This includes motion, dynamics, energy, light, and waves. The class uses a variety of materials, media and experiments to aid learning of physics. |
| Pre-Anatomy | 1 sem | 10-12 | Elective |  | Students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems. |
| Anatomy and Physiology | 1 sem | 10-12 | Elective | PreAnatomy | Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body |


|  |  |  |  |  | functions such as muscle movement, reflex and <br> voluntary action, and respiration. Exploring <br> science in action, students build organs and <br> tissues on a skeletal manikin, work through <br> interesting real world cases and often play the <br> roles of biomedical professionals to <br> solve medical mysteries. |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Principles of <br> Engineering | $\mathbf{2}$ sem | $\mathbf{1 1 - 1 2}$ | Elective | Geometry | Students explore a broad range of engineering <br> topics including mechanisms, strength of <br> structure and materials, and automation, and <br> then apply what they know to take on challenges <br> like designing a self-powered car. |
| Aerospace <br> Engineering | $\mathbf{2}$ sem | $\mathbf{1 0 - 1 2}$ | Elective |  | Students explore the physics of flight and bring <br> what they're learning to life through hands-on <br> projects like designing a glider and creating a <br> program for an autonomous space rover. |
| Zoology | $\mathbf{1 ~ s e m}$ | $\mathbf{1 0 - 1 2}$ | Elective |  | The scientific study of the behavior, structure, <br> physiology, classification, and distribution of <br> animals. |
| Marine Science | $\mathbf{1 ~ s e m}$ | $\mathbf{1 0 - 1 2}$ | Elective |  | The study of the physical and biological aspects <br> of the ocean. |

## FOREIGN LANGUAGE

| Course Title | Length | Grade <br> offered | Required/ <br> Elective | Prerequisit <br> e | Description |
| :--- | :--- | :--- | :--- | :--- | :--- |$|$| Spanish I |
| :--- |
| Spanish II |

## BUSINESS

| Course Title | Length | Grade <br> offered | Required/ <br> Elective | Prerequisite |  | Description <br> Introduction to <br> Business <br> (can enter or <br> exit either <br> semester) |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$\left.\begin{array}{|l|l|l|l|l|l|l|}\hline \text { Course Title } & \text { Length } & \begin{array}{l}\text { Grade } \\ \text { offered }\end{array} & \begin{array}{l}\text { Required/ } \\ \text { Elective }\end{array} & \text { Prerequisite } & \begin{array}{l}\text { Description } \\ \hline \text { Accounting II } \\ \end{array} & \mathbf{2} \text { sem } \\ & & \mathbf{1 1 - 1 2} & \text { Elective } & \text { Accounting I } & \begin{array}{l}\text { This class will focus on enhancing the students' } \\ \text { knowledge of the basic accounting concepts. } \\ \text { The students will review the sole proprietorship } \\ \text { and partnership accounting cycles and will then } \\ \text { focus on how to keep accounting records for a } \\ \text { corporation. This class will be an independent } \\ \text { study and will be taken at the same time as }\end{array} \\ \text { Accounting I students. The student must be } \\ \text { trustworthy and able to complete tasks } \\ \text { independently. Approval from the business } \\ \text { teacher must be obtained before a student can } \\ \text { enroll is this class. }\end{array}\right\}$

| Course Title | Length | Grade <br> offered | Required/ <br> Elective | Prerequisite | Description |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Business <br> Computer <br> Applications <br> SWCC class <br> BCA 215 <br> nd <br> semester | $\mathbf{1}$ sem | $\mathbf{1 1 - 1 2}$ | Elective | ACCUPLACER <br> score <br> CSC110 | This is a course for experienced computer <br> users. This is an upper level applications <br> course utilizing Microsoft Office programs. <br> Special attention will be given to program <br> integration and applying skills to business <br> situations. |
| School to <br> Work | $\mathbf{1}$ sem | $\mathbf{1 2}$ | Elective |  |  |
| Workplace <br> Experience - <br> Business | $\mathbf{1}$ sem | $\mathbf{1 2}$ | Elective |  | Diversified Occupations <br> The learner will assess personal interests and <br> skills while participating in a work-based <br> learning situation. Work-release time will be 2- <br> 3 times a week and have a weekly review due <br> at the end of each week. Students are expected <br> to have completed prior coursework relating to <br> the area of work study they wish to enroll in. A <br> final project/presentation completes the course. |

HUMAN SERVICES -- (FCS)

| Course Title | Length | Grade <br> offered | Required/ <br> Elective | Prerequisite | Description <br> Principles of <br> Human <br> Services <br> 2 sem <br> Human |
| :--- | :--- | :--- | :--- | :--- | :--- |


| Growth and <br> Development <br> II |  |  |  | growth and <br> development <br> I | I. It is strongly recommended as a pre-requisite <br> to College Psychology 111. This course <br> provides students with an understanding of the <br> aspects of human growth and development <br> across the life span. This course will deal with <br> the physical, emotional, social and intellectual <br> development of a child from conception to <br> adults. Students will explore safety, abuse, <br> moral decision making and prevention of <br> accidents and illnesses. Career exploration is <br> part of this class. |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Textile Sciences | $\mathbf{2 s e m}$ | 9-12 | Elective |  | This course introduces students to and expand <br> upon the various aspects of apparel, garment <br> construction, and the textile industry, design <br> principles, production processes, and <br> maintenance techniques. These courses usually <br> address the selection, characteristics, care, and <br> repair of various textiles; operation and care of <br> commercial sewing machines; design, <br> construction, and production of fabrics and/or <br> garments; and career opportunities in the <br> garment or textile industry. This class will run <br> the Twolves shop. |
| Workplace | $\mathbf{1 s e m}$ | $\mathbf{1 1 - 1 2}$ | Elective |  | The focus of this course is to allow student the <br> opportunity to gain on-the-job skills in a Human <br> Service business to either gain knowledge <br> valuable for college courses or prepare students <br> with skills to enter directly into the workplace. <br> This course will involve an application process <br> and selection to match students with potential <br> businesses. Students will typically be on the job <br> site in the morning every day. |
| FCS |  |  |  |  |  |

## AGRICULTURE AND TECHNOLOGY

Students who join FFA must take an Ag class for one semester each year and pay dues to acquire membership; this is a local, state, and national rule.

| Course Title | Length | Grade offered | Required/ Elective | Prerequisite | Description |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Principles of Agriculture Science and Technology | 2 sem | 9-10 | Elective |  | This is an introductory course that presents the student with the foundations of agricultural science. Students will develop skills and knowledge in plant science, soil conservation, animal science, natural resource management, and the agricultural mechanics that relate to these life sciences. Students will also learn leadership skills through an introduction to the FFA and supervised agricultural experience program. Students will develop skills building an ag project from wood during second semester after drawing approved plans. <br> Projects are very important to a successful shop experience. |
| Basic Soil \& Plant Management in Ag Science Technology | 1 sem | 10-12 | Elective |  | A course which starts with the origin and classification of soils and develops knowledge and skills in soil structure and texture as it applies to agriculture today. The student will learn how water quality and soil conservation are related to good soil stewardship. The student will explore the principles of basic plant science and develop knowledge and skills in plant structure, physiology, and reproduction as it relates to agricultural production and principles of horticulture. The student will develop knowledge for different ways to manage crop and forage production and its relationship to government regulations and its effect on the environment. |
| Basic Animal Science and Technology | 1 sem | 10-12 | Elective |  | This course helps students develop knowledge and skills in livestock identification and selection, nutrition and feeds, rations, genetics, reproduction, marketing, and disease control. Students will also look at the effects of biotechnology and genetic engineering factors on the livestock industry today. The students will have hands on experience with computers as it applies to animal science. |
| Advanced Animal Science | 1 sem | 10-12 | Elective | Basic Animal Science and Tech | This course builds on the knowledge learned in Basic Animal Science and Technology. |


| Course Title | Length | Grade <br> offered | Required/ <br> Elective | Prerequisite | Description <br> Agricultural <br> Natural <br> Resources |
| :--- | :--- | :--- | :--- | :--- | :--- |


| Course Title | Length | Grade <br> offered | Required/ <br> Elective | Prerequisite | Description |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Agricultural <br> Mechanics <br> (Small <br> Engines) | $\mathbf{1}$ sem | $\mathbf{1 0 - 1 2}$ | Elective |  |  |


| Course Title | Length | Grade offered | Required/ Elective | Prerequisite | Description |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Workplace Experience Program | 1 sem | 11-12 | Elective | Application Process | The focus of this course is to allow students the opportunity to gain on-the-job skills in an agriculture related business to either gain knowledge valuable for college courses or prepare students with skills to enter directly into the workplace. This course will involve an application process and selection to match students with potential businesses. Students will typically be on the job site in the morning every day |
| Agricultural Woodworking | 1 sem | 10-12 | Elective |  | This course covers basic hand tool and machine operations in the wood/carpentry shop. Shop and machine safety are prioritized and operation of radial arm saws, jointer, table saw, bandsaw, jigsaw, drill press, sanders, lathe, and portable tools will be implemented. First semester consists of required projects aimed at principles of construction, joints, assembly, gluing, clamping, and finish. |
| Agricultural Construction | 1 sem | 10-12 | Elective | Ag Woodworking | Prepares students to construct and maintain agricultural structures and equipment. Develops basic skills such as: tool identification, interpreting plans, calculating a bill of materials, electrification, carpentry, welding, metal fabrication, plumbing, and masonry. |
| Leadership in Agriculture | 1 sem | 10-12 | Elective |  | Agricultural leadership provides an appreciation of agriculture and natural resources with an understanding of leadership theory and its application. Commitment to agriculture, authentic leadership, diversity, critical thinking and professionalism are the five core values behind this course. |
| Farm and Home Maintenance | 1 sem | 10-12 | Elective |  | The class will concentrate on an introduction to basic skills needed for anyone planning to own a home in the future. Units included are safety, hand/power tools, blueprint reading, electrical wiring, concrete, plumbing, structural design, and basic drafting. We will complete basic wiring labs on wiring boards and stud walls, PVC and copper pipe structures, concrete blocks, and a variety of household layout plans. |
| Ag Power and Technology | 1 sem | 10-12 | Elective |  | Exposes students to mechanics, power, technology, and career options in the world of agriculture. Students participating in the APT course will have experiences in various mechanical and engineering concepts with exciting hands-on activities, projects, and problems. Student's experiences will involve the study of energy, tool operation and safety, material properties, machine operation, and structural components. Students will acquire the basic skills to operate, repair, engineer, and |


|  |  |  |  |  | design agricultural tools and equipment. (Offered Fall of Odd Years) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Mechanical Systems in Ag | 1 sem | 9-12 | Elective | Ag Power and Technology | Students will expand on knowledge learned in APT to explore the mechanical systems used in agriculture. Students will research, create, build and test mechanical structures. (Offered Fall of Even Years) |
| Ag Carpentry | 1 sem | 10-12 | Elective | Ag Construction | Students will become familiar with all aspects of carpentry from the foundation to the roof including: framing, siding, roofing, and interior design. Students will use previous learned knowledge to build a larger project. (Limited to 8 students) |

## MUSIC

| Course Title | Length | Grade offered | Required/ <br> Elective | Prerequisite | Description |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Band | 2 sem | 9-12 | Elective |  | The main purpose of the band program is to provide the students with a level of musicianship above and beyond the normal music education courses. The band program gives students the chance to master an instrument they currently play, and also provide opportunities for them to learn new instruments, if so desired. Leadership, teamwork, discipline, and pride are all components of the band program. Required curriculum of the band program includes marching band, concert band, pep band, and solo/small ensemble group work. Depending on interest and numbers, students may have the opportunity to participate in jazz band and color guard. |
| Concert Choir | 2 sem | 9-12 | Elective |  | Concert choir is a performance-oriented group open to all grades. This course provides a means for students to demonstrate music skills and knowledge developed in general music classes. The concert choir uses a repertoire of quality music literature in a wide range of styles. Through performance, students become a part of something much larger than themselves in the context of working together to accomplish a group goal. <br> The concert choir performs four required events, including a Pops Concert and State Large Group Contest. Other performance possibilities for concert choir members are POI Conference Honor Choir, State Solo/Ensemble Contest, private lessons, All State auditions, National Anthem Singers and musical. |
| Music Appreciation | 1 sem | 9-12 | Elective |  | In this course we will discover how music shapes our lives. We will cover the basics of music, music history, world music, and even |


|  |  |  |  | modern pop music. By the end of this class you <br> will have a better understanding of the <br> complexity and art of music. |
| :--- | :--- | :--- | :--- | :--- |

## Art

| Course Title | Length | $\begin{array}{\|l\|} \hline \begin{array}{l} \text { Grade } \\ \text { offered } \end{array} \\ \hline \end{array}$ | Required/ Elective | Prerequisite | Description |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Applied Art | 1 sem | 9-12 | Elective |  | This semester course in the study of the 7 elements of art throughout a variety of mediums such as: drawing, painting, printmaking, weaving and or course work that may include community and school projects requested by various groups. |
| $\begin{aligned} & \hline \text { Drawing } \\ & \mathbf{1}^{\text {st }} \text { Semester } \end{aligned}$ | 1 sem | 9-12 | Elective |  | This semester course will work on the fundamentals of drawing using a variety of mediums such as: pencil, colored pencil, pastels and or ink. Several drawing techniques like: contour, perspective, gridding, blending and shading will be studied on many different subjects. |
| $\begin{aligned} & \hline \text { Painting } \\ & 2^{\text {nd }} \text { Semester } \end{aligned}$ | 1 sem | 9-12 | Elective | Drawing | This semester course will concentrate on the theory of color using a variety of medium such as: watercolor, oil/soft pastels, ink acrylic and or digital painting. Students who enroll should have successfully completed a drawing class. |
| Ceramics I | 1 sem | 9-12 | Elective |  | This semester course will focus on variety of 3 dimensional projects. Ceramics will focus on potter's wheel and hand building (pinching, coiling and slab construction) projects. Sculpture will focus on additive and subtractive technique using wire, plaster, paper mache, and or found objects. |
| Ceramics II | 1 sem | 9-12 | Elective |  | This course is the continuation of Ceramics I. |
| Media | Year | 11-12 | Elective |  | Media's main activity is the creation of the yearbook. This course is primarily for advanced English and/or advanced art students. Because of the high-pressure nature of the class, a limited number of students will be involved each semester (8-12 students). |
| Printmaking | 1 sem | 9-12 | Elective |  | A studio course designed produce works of art throughout the use of monotypes, relief, serigraphy and intaglio printmaking techniques. |
| Art I | 1 sem | 9-12 | Elective |  | This introductory studio course is a one semester elective that will prepare the student for further high school art experiences. The student will be introduced to skills and media that are utilized in the other art electives including: drawing, painting, ceramics, the elements and principles of design, color theory, the critical process, and keeping a sketchbook journal. |
| Art II | 1 sem | 9-12 | Elective |  | This is a continuation of the knowledge and skills learned in Art I |

## Physical Education

| Course Title | Length | Grade <br> offered | Required/ <br> Elective | Prerequisite | Description |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Physical <br> Education | 1 sem | $\mathbf{9 - 1 2}$ | Required |  | The class will be a combination of: <br> Weightlifting, Cardiovascular and Endurance <br> Training, Lifetime Activities, Competitive <br> Activities, Team Sports, Leisure and Outdoor <br> activities, Physical Testing. |
| Health | 1 sem | $\mathbf{9}$ | Required |  | The course will emphasize the importance of <br> personal responsibility in health and wellness. <br> It will focus on personal decision making in <br> fitness, nutrition, and weight control, as well as <br> aging and health. Improving and maintaining <br> quality of life through health and healthy <br> decisions is ongoing theme throughout this <br> course. |
| Health II | 1 sem | $\mathbf{1 0 - 1 2}$ | Elective <br> Will also fulfill <br> the Health I <br> requirement | Open to all <br> students as an <br> elective. <br> May take even if <br> have already <br> taken Health I. | The course will be an extension of Health and <br> Wellness I. It will continue to emphasize the <br> importance of personal responsibility in health <br> and wellness. It will focus on personal decision <br> making in fitness, nutrition, and weight control, <br> as well as aging and health, Improving and <br> maintaining quality of life through health and <br> healthy decisions is ongoing theme throughout <br> this course. |
|  |  |  |  |  |  |
| Weight <br> Training | 1 sem | $\mathbf{9 - 1 2}$ | Elective |  | Eeight lifting and training for appropriate <br> physical fitness and toning is the main focus of <br> this course. |

SPECIAL EDUCATION

| Course Title | Length | Grade <br> offered | Required/ <br> Elective | Prerequisite | Description |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Study Skills | $\mathbf{2}$ sem | $\mathbf{9 - 1 2}$ |  |  | An individualized class designed by the student and <br> the IEP team to match the learning style of the <br> student. Individual and/or small group instruction is <br> provided. The student must qualify by federal, <br> state, and local standards in order to receive <br> services. This class is required for all IEP students <br> unless the student is already enrolled in a special <br> class or special arrangements have been made. The <br> course will be structured as a pass/fail grade and will <br> not affect the student's GPA. |
|  |  |  |  | This is an arranged program on <br> recommendation of IEP team. <br> This class is an individualized introduction to the <br> world of work, taught cooperatively by local <br> teachers and Area Education Agency staff. Students <br> are placed on local job sites to gain an <br> understanding of the variety of tasks involved in <br> different career areas. Four to six job sites may be <br> experienced per year. Job sites are attended two - <br> three days a week. |  |
| Experience- <br> Based Career <br> Education <br> (EBCE) |  | $\mathbf{1 1 - 1 2}$ |  |  |  |

## SENIOR YEAR PLUS

Current legislation under Senior Year Plus allows students rigorous academic options during high school, for which students passing with a C or $\uparrow$ also earn college credit. Southwest Valley High School offers Concurrent Enrollment, Independent Online Learning, and Career Academies through agreements with Southwestern Community College (SWCC).

Any student signed up for a college credit class, whether it is taught on Corning High School campus or online, must meet all of the entry requirements of Southwestern Community College. The students must have a qualifying ACCUPLACER score predetermined by the community college or an ACT test score of 19. Students can register for the ACCUPLACER exam in the high school counselor's office. Students enrolled in collegecredit courses must also abide by an attendance policy, as established in concordance with college course standards. Students are allowed to take up to 23 credit hours per year through one educational institution.

Students who wish to pursue other options for college credit can pursue the Post-Secondary Enrollment Option (PSEO). If a student does not successfully complete a PSEO course, the student will be held financially responsible for all tuition, books, and fees, typically totaling around $\$ 500$.

## CONCURRENT ENROLLMENT REQUIREMENTS:

Southwest Valley students have the opportunity of completing several college credit courses while enrolled as high school students. The following must be completed before admission into college classes:

1. Apply to Southwestern Community College (done online).
a. Go to www.swcciowa.edu
b. Click the big APPLY button on the right side of the page.
c. Click on Application for Admission-High School Student
d. Complete the application: you will need to enter your social security number and birth date.
2. Complete SWCC registration paperwork through the high school counselor's office.
3. Students must have a completed ACCUPLACER testing at SWCC with required range score or have an ACT score (19 or $\uparrow$ on file) that meets eligibility range.

The following courses are taught in-house by master's level instructors and students earn both high school and college credit through a contractual agreement with Southwestern Community College. Students can enroll in a MAXIMUM of 23 credits per year (includes courses taught by SWV instructors, SWCC instructors, AND online classes).

| Course number | Course name-all are a semester, 3 SWCC credits except <br> Calculus classes-4 SWCC credits |
| :--- | :--- |
| ENG 105 | Composition I |
| ENG 106 | Composition II |
| ENG 221 | Creative Writing (NOT offered Fall 2018) |
| MAT 120 | College Algebra-taught on site by SWCC instructor |
| MAT 156 | Statistics -taught on site with SWCC instructor |
| MAT 210 | Calculus I-taught by SWCC instructor (off site) |
| MAT 216 | Calculus II--taught by SWCC instructor (off site) |
| CSC 110 | Introduction to Computers |
| BCA 215 | Computer Business Applications |
| LIT 101 | Introduction to Literature |

SWCC online classes: Students are allowed to enroll in online classes offered through the Southwest Valley CSD contract agreement with Southwestern Community College. The registration process is the same as concurrent classes taught at the high school. The contracted courses are listed on the following table.

Juniors $\left(11^{\text {th }}\right)$, seniors $\left(12^{\text {th }}\right)$ and any identified TAG students are allowed to take these courses outside of the school day. This means that students will still be expected to enroll in 8 courses at the high school in addition to their elected online SWCC courses.

Online classes will be added to the schedule after all required high school classes are scheduled. Only one online class per semester may be enrolled in on the first attempt of a SWCC online class. If a student wishes to take more than one online class on the first attempt, the parent and student must sign a SWCC "Acceptance of Responsibility" form.

## SWCC online classes:

| Course number | Course name |
| :--- | :--- |
| ART 101 | Art Appreciation |
| BIO 151 | Nutrition (pre-requisite high school chemistry) |
| BIO 162 | Essentials of Anatomy and Physiology (pre-requisite H.S. Biology <br> and Chemistry) |
| BUS 102 | Introduction to Business (ACCUPLACER writing score 69 or <br> above) |
| BUS 121 | Business Communications (College English or Placement Writing <br> Score) |
| BUS 161 | Human Relations |
| CSC 110 | Introduction to Computers (General Keyboarding Skills) |
| ECE 103 | Introduction to Early Childhood Education |
| EDU 213 | Introduction to Education (ENG 105 highly encouraged) |
| GEO 121 | World Regional Geography |
| HIS 110 | Western Civilization: Ancient to Early Modern |
| HIS 111 | Western Civilization: Early Modern to Present |
| HIS 152 | U.S. History Since 1877 |
| HIS 268 | American Experience in Vietnam |
| HSC 114 | Medical Terminology |
| LIT 178 | Mythological and Biblical Literature |
| LIT 101 | Introduction to Literature |
| MGT 101 | Principles of Management (pre-requisite BUS 102) |
| MGT 110 | Small Business Management |
| MUS 100 | Music Appreciation |
| MUS 204 | History of Rock and Roll |
| PSY 121 | Developmental Psychology |
| PEC 108 | Sports and Society |
| PSY 111 | Introduction to Psychology |
| SOC 110 | Introduction to Sociology |

Other online courses as approved by both SWV high school and SWCC.
Course descriptions can be found on the SWCC website.
SWV high school does not provide or pay for summer college courses.
The following few pages introduce the Career Academies that are offered for Southwest Valley students through Southwestern Community College.

CAREER ACADEMY—SWCC concurrent enrollment—offered off the high school campus. Students expected to provide their own transportation to the educational site (hospital for the Health Careers and SWCC for the other academies-unless designated SWV campus).

Link to courses: http://www.swcciowa.edw/downloads/Academics/Catalog_2017-2019_webv1.pdf

| Health Career Academy ( $\mathbf{1 1}^{\text {th }}$ grade status) |  |  |  |
| :---: | :---: | :---: | :---: |
| Courses |  |  |  |
| Intro to Health Occupations | HSC 110 | English Composition | mpus) |
| Medical Terminology | HSC 114 | Nurse Aide I | HSC 172 |
| College Speech | SPC 101 | Pharmacology Basics | PNN 208 |
| Intro to Psychology | PSY 111 | English Composition II | campus) |

Health Career Academy will be provided through Southwestern Community College and will be concurrent credit.

## HEALTH SCIENCE

## Year 1- Fall

HSC 110 Introduction to Health Occupations $\mathbf{3}$ credits
This course is designed to offer students an opportunity to explore health-related professions.

## HSC 114 Medical Terminology 3 credits

This course will aid in the student's understanding of core medical terms. Attention will be given to prefixes, suffixes and root words used in the medical field. Exercises stressing the spelling, pronunciation, and usage of medical terms are included.

## Year 1- Spring

## HSC 172 Nurse Aide 3 credits

Prerequisites: HSC 110 Introduction to Health Occupations and criminal background check. 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 3 credits
Recommended for pre-nursing students. 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.

## Computer Science-Information Tech Systems Networking Career Academy

| Year One | Courses |  | Year Two |  |
| :--- | :--- | :--- | :--- | :---: |
| Computer Hardware Basics | NET 122 | Composition I | ENG 105 |  |
| Operating Systems Software | NET 132 | Introduction to Computers | CSC 110 |  |
| Introduction to Robotics <br> Networking | NET 852 | Introduction to Programming <br> Logic | CIS 121 |  |
| PC Operating Systems | CIS 650 | Implementing Windows <br> Network Infrastructure | NET 333 |  |
| CISCO Networking | NET 212 |  |  |  |

## INFORMATION TECHNOLOGY SYSTEMS NETWORKING

## Year 1- Fall

## NET 122 Computer Hardware Basics 3 credits

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. This course will prepare students to take Comp TIA's A+ Certification exam.

## NET 132 Operating Systems Software Basics 3 credits

Students will be expected to demonstrate knowledge of DOS, Windows 3.x, and Windows 95 for installing, configuring, upgrading, troubleshooting, and repairing microcomputer systems. Emphasis will be placed on: function, structure, operation, and file management; memory management; installation, configuring, and upgrading; diagnosing and troubleshooting; and networks. This course will prepare students to take Comp TIA's A+ Certification exam.

## NET 852 Introduction to Robotics Networking $\mathbf{3}$ credits

This course is designed as a general introduction to robotics programming. Students will work in teams to design, build, and program robots with Bluetooth/wireless technology.

## Year 1-Spring

## CIS 650 PC Operating Systems

## 3 credits

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 system commands. Rudimentary introductions to the registry, batch programming, and system programming with other languages will also be included.

## NET 212 CISCO Networking <br> 3 credits

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 network support or administration or academic training, while also preparing them for the CISCO CCENT-1 Certification.

Year 2- Fall
ENG 105 Composition I

## 3 credits

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 105 and paragraph structure, and correctness in usage, grammar, and mechanics. Research documentation is introduced.

## CSC 110 Introduction to Computers $\mathbf{3}$ credits

Prerequisite: Keyboarding skills. This 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 for Microsoft Office programs.

Year 2 -Spring
CIS 121 Introduction to Programming Logic $\mathbf{3}$ credits
This course will provide a basic understanding of problem-solving concepts. The course explains the logic behind storing and moving data and the programming logic required to 97 meet the needs and parameters of end users and the systems they utilize. NET 333 Implementing Windows Network Infrastructure 3 credits
This course provides students with the knowledge and skills to implement, manage, and maintain a Microsoft Windows Server 2003 network infrastructure. The course is intended for systems administrator and systems engineer candidates who are responsible for implementing, managing, and maintaining server networking technologies. These tasks include implementing routing; implementing, managing, and maintaining Dynamic Host Configuration Protocol (DHCP), Domain Name System (DNS), and Windows Internet Name Service (WINS); securing Internet Protocol (IP) traffic with Internet Protocol security (IPSec) and certificates; implementing a network access infrastructure by configuring the connections for remote access clients; and managing and monitoring network access.

## Automotive Repair Technology Career Academy

| Year One | Courses |  |  |
| :--- | :--- | :--- | :--- |
| Intro to Auto Tech | AUT 104 | Auto Engine Repair Two | AUT 163 |
| Automotive Brake Systems | AUT 503 | Adv Auto Engine Repair | AUT 173 |
| Auto Suspension \& Steering | AUT 404 | Auto Fuel Systems | AUT 834 |
| Basic Auto Electricity | AUT 603 | Adv Auto Brakes \& Alignment | AUT 535 |
| Adv Auto Electricity | AUT 652 | Auto Elec. Engine Controls | AUT 844 |
| Auto Heating \& Cooling | AUT 704 |  |  |

## Descriptions on next page:

## AUTOMOTIVE REPAIR TECHNOLOGY

## Year 1- Fall

## AUT 104 Introduction to Automotive Technology 3 credits

This course provides instruction in the selection and use of mechanics tools and precision measuring devices. Practical, handson activities with automotive engines and shop safety will be emphasized.

## AUT 503 Automotive Brake Systems 3 credits

Prerequisite: AUT 104 Introduction to Automotive Technology. This course will provide instruction in the theory of operation and service procedures of automotive braking systems.

Year 1-Spring
AUT 404 Automotive Suspension \& Steering 4 credits
Prerequisite: AUT 503 Automotive Brake Systems. This course will provide instruction in the theory of operation and service procedures of automotive alignment and suspension systems.

## AUT 603 Basic Automotive Electricity 3 credits

Prerequisite: AUT 104 Introduction to Automotive Technology. This course will provide instruction in theory and operation of automotive electrical circuits. Safety, meters, and service information will be emphasized.

## AUT 652 Advanced Automotive Electricity 3 credits

Prerequisite: AUT 603 Basic Automotive Electricity. This course is designed to provide instruction in the diagnosis, repair, and service of electrical and electronic components found on current vehicles.

## AUT 704 Automotive Heating \& Air Conditioning 4 credits

Prerequisite: AUT 652 Advanced Automotive Electricity. This course will provide instruction in the theory of operation of auto air conditioning and heating systems. Students will learn how to diagnose and service auto air conditioning and heating systems.

## Year 2- Fall

## AUT 163 Automotive Engine Repair <br> 3 credits

Prerequisite: AUT 104 Introduction to Automotive Technology. This course will provide instruction in the theory and operation of the four stroke automotive engine. Students will gain hands on experience in a lab setting learning how to service and repair cylinder heads.

## AUT 173 Advanced Automotive Engine Repair 3 credits

Prerequisite: AUT 163 Automotive Engine Repair. This course is designed to provide the student with instruction in the proper diagnosis and repair of engine malfunctions. Students will learn diagnostic procedures using modern, high tech equipment and will flow through with the actual adjustments and repairs of defective components and assemblies in a supervised lab setting.

Year 2- Spring
AUT 834 Automotive Fuel Systems

## 4 credits

Prerequisite: AUT 163 Automotive Engine Repair. This course will provide the instruction to introduce the student to basic fuel system principles. Students will study theory and will gain hands-on experience by cleaning, repairing, and adjusting automotive fuel systems.

## AUT 535 Advanced Automotive Brakes \& Alignment 5 credits

Prerequisite: AUT 404 Automotive Suspension and Steering. This course is designed to require the student to build on and apply the knowledge and skills gained in AUT 503 Automotive Brake Systems and AUT 404 Automotive Suspension and Steering. Through supervised lab experiences, students will study advanced techniques in the diagnosis, service, and repair of brake and suspension systems.

## AUT 844 Automotive Electronic Engine Controls 6 credits

Prerequisites: AUT 652 Advanced Automotive Electricity and AUT 834 Automotive Fuel Systems. This course is designed to require students to apply knowledge and skills gained in AUT 603 Basic Automotive Electricity, AUT 652 Advanced Automotive Electricity, and AUT 834 Automotive Fuel Systems. Through supervised labs, students will experience hands-on diagnosis and repair of the computers, sensors, and control devices of late model cars.

Electrical Technology

| Year One | Courses |  |  |
| :--- | :---: | :--- | :---: |
| Introduction to Wiring | ELE 178 | National Electrical Two Code 1 | ELE 155 |
| Technical Math | MAT 743 | Residential Electrical Services | ELE 207 |
| Blueprint Reading | ELE 116 | DC Theory | ELE 177 |
| Blueprint Reading | ELE 174 | Motor Control | ELE 195 |
| Advanced Wiring Systems | ELE 179 |  |  |

## ELECTRICAL TECHNOLOGY Career Academy

## Year 1- Fall

## ELE 178 Introduction to Wiring

## 3 credits

This course will focus on the various career paths and/or opportunities in the electrical profession. The different sectors of the electrical industry will be discussed. The course will examine the variety of tasks typically performed by electricians as well as studying the responsibilities and aptitudes of those in the electrical profession. This course will examine the different types of nonmetallic and metallic device boxes available, how to determine the appropriate box for a given application and the appropriate method for mounting device boxes. Identifying and selecting various types and sizes of raceways and fittings will be discussed along with the different methods of installing raceways. Methods of bending and installing conduit will be examined. Finally, the course will examine the allowable ampacity of a conductor for a given application and installing conductors in a raceway system.

## MAT 743 Technical Math

## 3 credits

Applied mathematics skills are reviewed and concepts in measurement, basic algebra, graphs, geometry, and trigonometry are covered.

## Year 1-Spring

## ELE 116 Blueprint Reading

## 3 credits

This course will examine the basic layout of a set of construction drawings and identify the types of lines. Students will be trained to use an architect's scale, interpret electrical drawings, interpret equipment schedules, and describe the type of information included in electrical specifications.

## ELE 174 Blueprint Reading 3 credits

Prerequisite: ELE 116 Blueprint Reading. This is a training course for those who wish to learn the basic principles of commercial/industrial blueprint reading with a strong emphasis on electrical construction. This course develops an understanding of various rules and guidelines for the makeup of construction blueprints. The prints are then referred to, interpreted, and put into real world applications.

## ELE 179 Advanced Wiring Systems

## 3 credits

Prerequisite: ELE 178 Introduction to Wiring. The course will cover the process of conduit bending using electric and hydraulic benders and the types of bends. Identification, selection, and installation of pull and junction boxes will be discussed. Setting up and planning a cable pulling operation along with learning to install a pull line will be examined. The course will cover the components of a cable tray assembly and how cable enters and exits a cable tray. The preparation of cable ends for terminations and splices and connections using lugs or connectors will be covered. The operation of a circuit breaker and the necessity of overcurrent devices in electrical circuits is an essential part of this course.

## Year 2- Fall

## ELE 155 National Electrical Code I

## 2 credits

This course will focus on a review of the National Electrical Code®. The students will learn the layout of the NEC® and be able to navigate through it quickly.

## ELE 207 Residential Electrical Services 3 credits

The course will focus on the grounding requirements of a residential electrical service, calculating, and selecting service entrance equipment, and selecting the proper wiring methods for various types of residences. The course will also cover computing branch circuit load requirements. The types and purpose of equipment grounding conductors and the purpose of ground fault circuit interrupters will be discussed. The course will examine the installation regulations for electrical systems around swimming pools, spas, and hot tubes as well as the rules for installing electrical space heating and HVAC equipment. The operation of the following testing equipment will be covered: voltmeter, ohmmeter, clamp-on ammeter, multimeter, megohmeter, motor and phase rotation testers.

Year 2 - Spring
ELE 177 DC Theory 3 credits
This course will focus on the inter-relationship between current, voltage, resistance, and power in a direct current electric circuit.
Series, parallel, and combination circuits will be explored in depth using Ohm's laws, Kirchoff's laws and the power wheel.

## ELE 195 Motor Control

## 3 credits

This course discusses motor controls, components, operation, and service. Students will learn electric relay control of AC and DC motors along with troubleshooting motors in an industrial application.

Carpentry/Building Trades Career Academy

| Year One |  | Courses |  |
| :--- | :--- | :--- | :--- |
| Basic Construction Skills | CON 141 | Construction Lab IIA | CON 188 |
| Construction Lab IA | CON 183 | Carpentry Level IIA | CON 237 |
| Carpentry Level I | CON 155 | Construction Lab IIB | CON 189 |
| Construction Lab IB | CON 184 | Carpentry Level IIB | CON 267 |

## CARPENTRY/BUILDING TRADES

## Year 1-Fall

## CON 141 Basic Construction Skills 2 credits

This course provides students with the basics in construction including math, safety, blueprint reading, hand and power tools, employability skills, and materials handling.

## CON 183 Construction Lab IA <br> 5 credits

This course provides students a hands-on application in the basics in construction including math, safety, blueprint reading, hand and power tools, employability skills, and materials handling.

Year 1-Spring
CON 155 Carpentry Level I 3 credits
This course will provide a fundamental overview of the carpentry trade. Students will gain a basic knowledge of construction materials, hand and power tools, and rough framing. Other course topics include plan reading, window and exterior door installation, and basic concrete practices.

## CON 184 Construction Lab IB 5 credits

This course provides hands-on experience in the construction of a residential home. Students will demonstrate basic knowledge of construction materials, hand and power tools, rough framing, plan reading, window and exterior door installation, and basic concrete practices.

## Year 2- Fall

## CON 188 Construction Lab IIA

## 5 credits

This course provides hands-on experience in the construction of a residential home. Students will apply knowledge and skills in roofing applications, thermal and moisture protection, exterior finishing, and cold-formed steel framing. CON 237 Carpentry Level IIA

3 credits
Carpentry Level IIA is designed to provide the students with knowledge, information, and skills in preparation to handle the work requirements in the construction trades. The intent of this course is to provide students with knowledge and skills in roofing applications, thermal and moisture protection, exterior finishing, and cold-formed steel framing.

Year 2- Spring

## CON 189 Construction Lab IIB 5 credits

This course provides hands-on experience in the construction of a residential home. The intent of this course is to provide students with the knowledge to install and finish drywall, install doors and windows, install suspended ceilings, and install cabinets.

## CON 267 Carpentry Level IIB <br> 2 credits

Carpentry Level IIB is designed to provide the students with knowledge and information in preparation to handle the work requirements in the construction trades. The intent of this course is to provide students with the knowledge in drywall installation and finishing, installation of doors and windows, the installation of suspended ceilings, as well as the installation of cabinets.

