# Danville High School Course Descriptions 



Danville, Iowa 2023-2024

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## Course Registration Information

The Danville High School Course Booklet is a synopsis of the classes offered during the school year. It is designed to aid students and their parents or guardians in course selections. If a class does not attract enough students to meet the minimum registration number, it will not be offered and students will be given the chance to choose other courses. Some courses are only offered every other year or just one semester. It is important to be aware of the way scheduling works to plan ahead.

Course selections should be carefully planned as you are choosing your classes for the fall and spring semester of next year. Please consult your parents, teachers, and Counselor as needed to consider the benefits and costs associated with the courses you choose. You should consider graduation requirements, prior successes and failures, special interests and abilities, college entrance requirements, and career goals. Times will be set aside before the beginning of each semester for students to make appropriate schedule changes.

Fifty-four credits (54), a passing grade in all required courses is necessary to graduate.

Seniors who wish to graduate at midterm during their senior year must have completed the following requirements:

- Schedule a meeting with the school counselor during registration to be sure all academic requirements have been met.
- Parents must make a written application to the high school principal BEFORE the fall semester begins.

Registration at Danville Community School District reflects a multicultural, non-sexist approach to education. Affirmative strategies are used to encourage non-traditional students to enroll in classes such as those offered by the applied sciences, technology, engineering, manufacturing, business, and family \& consumer science departments.

## Danville's Required Courses

Grade 9 English I
Physical Science
American History
Math course*
Beginning Computer Apps (1 sem.)+
Physical Education

Grade 10 English II
Biology
Math course
Soc. Stud. Elective
Communications (1 sem.)+
Physical Education

| Grade 11 | English III | Grade 12 |
| :--- | :--- | :--- | English IV or

* Normal Sequence: (PreAlgebra), Algebra I, Geometry, (Applied Math teacher approval only) Algebra II, Trigonometry, Calculus


## Additional Requirements:

- 1 additional year of math (total of 3 years)
- 1 additional year of science (total of 3 years)
- 1 additional course in social studies for a total of 6 semesters
+ If not taken during the recommended year, you need to take some time before graduation.


## Danville's Elective Courses

| Agriculture | English | Math |
| :---: | :---: | :---: |
| Intro to AFNR | English Appreciation | Algebra II |
| Agribusiness | Film Studies | Applied Math |
| Ag Mechanics | Popular Reads | Informal Geometry |
| Animal Science I | Theatre | Motorcycle Math |
| Animal Science II | Family Consumer Science | Trigonometry |
| Plant Science I | Baking Skills | Music |
| Plant Science II | Culinary III | High School Band |
| Art | Food Skills and Sanitation | High School Choir |
| Advanced Art | Interior Design and Housing | High School Show Choir |
| Art History | Foreign Language | Science |
| Ceramics I | Spanish I, II, III, IV | Anatomy and Physiology |
| High School Art | Health | Chemistry |
| Mixed Media (Freshmen Only) | Health I and II (even years) | General Science |
| 3D Sculpture | Health III and IV (odd years) | Social Studies |
| Business - Technology | Industrial Technology | Contemporary History |
| Accounting I, II, III, IV | Advanced Welding | Current Affairs |
| Advanced Computer Applications | Carpentry I | Women's History |
| Fabrication and Sales | Fabrication and Sales | World History I or II |
| First Tech Challenge | Home Maintenance |  |
| Intro to Business | Welding |  |
| Intro to Computer Science |  |  |
| MOC Class and Work Experience |  |  |
| Podcasting I and II |  |  |
| Sports Entertainment and Marketing |  |  |

# Danville High School Course Descriptions 

## Agriculture Department


#### Abstract

Introduction to Agriculture, Foods \& Natural Resources (Intro to AFNR) Grade Levels: 9, 10,11,12 Length: 1 semester Credit Hours: 1 Postrequisite: Pass with a C- or higher to take additional agriculture courses (or Instructor approval) Course Description: AFNR introduces students to agricultural opportunities and the pathways of study in agriculture. Science, mathematics, reading, and writing components are woven in the context of agriculture and students will use the introductory skills and knowledge developed in this course. Throughout the course are activities to develop and improve employability skills of students through practical applications. Students explore career and post-secondary opportunities in each area of the course. Students are eligible to participate in FFA when enrolled.


## Animal Science I

Grade Level: $9,10,11,12 \quad$ Length: 1 semester Credit Hours: 1 Prerequisite: Intro to AFNR (passed with C- or higher)
Course Description: A general program that focuses on the scientific principles that underlie the breeding and husbandry of agricultural animals, and the production, processing, and distribution of agricultural animal products. Includes instruction in the animal sciences, animal husbandry and production, and agricultural and food products processing. Students are eligible to participate in FFA when enrolled.

## Animal Science II

Grade Level: $9,10,11,12 \quad$ Length: 1 semester Credit Hours: 1
Prerequisite: Intro to AFNR and Animal Science I (passed with C- or higher in both courses) or Instructor approval
Course Description: An extension of Animal Science I that focuses on breeding and husbandry of agricultural animals, and the production, processing, and distribution of agricultural animal products. Includes instruction in the animal sciences, animal husbandry and production. Students are eligible to participate in FFA when enrolled.

## Plant Science I

Grade Level: 9, 10, 11, $12 \quad$ Length: 1 semester Credit Hours: 1
Prerequisite: Intro to AFNR (passed with $C$ - or higher)
Course Description: A general program that focuses on the scientific principles that underlie the breeding, cultivation, and production of agricultural plants, and the production, processing, and distribution of agricultural plant products. Includes instruction in the plant sciences, crop cultivation and production, and agricultural and food products processing. Students are eligible to participate in FFA when enrolled.

## Plant Science II

Grade Level: $9,10,11,12 \quad$ Length: 1 semester Credit Hours: 1
Prerequisite: Intro to AFNR and Plant Science I (passed with C- or higher in both courses) or Instructor approval Course Description: An extension of Plant Science I that focuses on the cultivation, and production of agricultural plants, and the production, processing, and distribution of agricultural plant products. Includes instruction in the plant sciences, crop cultivation and production. Students are eligible to participate in FFA when enrolled.

Agricultural Business Foundations (ABF or Agribusiness)
Grade Level: 11, $12 \quad$ Length: 1 semester Credit Hours: 1
Prerequisite: Intro to AFNR and Algebra I \&/or Accounting I or II (passed with $C$ - or higher in both courses) or Instructor approval
Course Description: A general program that focuses on modern business and economic principles involved in the organization, operation, and management of agricultural enterprises. Students are eligible to participate in FFA when enrolled.

Prerequisite: Intro to AFNR
Course Description:
Students will learn the skills and knowledge that are specifically applicable to the tools and equipment used in the industry. While learning to apply their knowledge of the basic principles of technological design and production skills (engine mechanics, power systems, welding, and carpentry, among others), students may explore a broad range of topics, including the operation, mechanics, and care of tools and machines; the construction and repair of structures integral to agricultural operations; a study of electricity and power principles; and the study of alternative fuels, technology and engineering, and safety procedures.

Agricultural Seminar - 18203
Grade Level: 10,11,12 Length: 1 semester Credit Hours: . 5
Prerequisite: Intro to AFNR
Course Description: This course helps students develop leadership skills. Focus on teambuilding, effective communication, decision making, and problem solving. Students will be afforded time to plan and organize FFA activities as part of the leadership team.

## Industrial Technology Department

## Welding

Grade Level: 9, 10, 11, $12 \quad$ Length: 1 semester Hours: 1
Considerations: Class size limited to 14 students.
Course Description: The welding course is designed to introduce students to a variety of manufacturing process and components such as OAW and SMAW processes, manual machining operations, metals, properties of metals, inspection methods, symbols, and the production process. This course will help students explore the opportunities of manufacturing-related careers and gain valuable skills in the manufacturing industry. The majority of the class is spent in the lab practicing different weld types. Students are eligible to participate in TSA when enrolled.

## Advanced Welding

Grade Level: 10, 11, 12 Length: 1 semester Credit Hours: 1

## Prerequisites: Welding

Course Description: Instruction emphasizes production fabrication techniques, maintenance and repair procedures, and inspection methods, among other aspects. Students are expected to design a project, write a technical paper, purchase materials, and make a project. The project-based learning course is designed to build on manufacturing knowledge and allow students to dive further into the manufacturing sector. The course may serve as an opportunity to expand their expertise in a particular application, explore a topic in greater detail, or to develop more advanced skills. Topics include Gas Metal Arc Welding (GMAW), Torchmate CNC software and Plasma Cutting. Students are eligible to participate in TSA when enrolled.

## Carpentry

Grade Level: 9, 10,11,12 Length: 1 semester Credit Hours: 1
Considerations: Class size limited to 14 students.
Course Description: Creation of projects using mostly wood and wood products from raw materials to finished materials, joinery, finishing operations, calculation of board feet of lumber, material lists, and project plans. Other units include shop safety, wood and wood products, safe and proper use of hand tools, safe and proper operations of shop machines, and problem-solving projects. Students will use these processes and learn carpentry skills to create predetermined woodworking projects that help introduce them to woodworking and carpentry. Students are eligible to participate in TSA when enrolled

Advanced Carpentry
Grade Level: 10, 11, $12 \quad$ Length: 1 semester Credit Hours: 1
Considerations: Class size limited to 14 students.

## Prerequisites: Carpentry I

Course Description: Additional skills and techniques will be emphasized. Creation of projects using mostly wood and wood products from raw materials to finished materials, joinery, finishing operations, calculation of board feet of lumber, material lists, and project plans. This course will allow students to expand their knowledge and create projects for competitions. Skills developed will help students to learn skills to help them complete tasks in their own homes.

## Fabrication and Sales (semester)

Grade Level: $9,10,11,12 \quad$ Length: 1 semester Credit Hours: 1
Considerations: Class size limited to 14 students. Ideally students will have taken Welding. Co-taught as a business class.
Prerequisite: Ideally students will have taken Welding
Course Description: Fabrication and Sales takes the mechanical, welding, and plasma cutting skills from welding and turns them into a real world experience of a business operation. A majority of businesses in the U.S. are operated as a Sole Proprietorship, and students can take skills learned from this course to potentially apply it to a business

## Home Maintenance (semester)

Grade Level: $9,10,11,12 \quad$ Length: 1 semester Credit Hours: 1
Considerations: Class size limited to 14 students.
Course Description:Course provides students with knowledge and skills related to basic home maintenance in the areas of basic electrical wiring, plumbing, window and door repair. Other considerations include: basic wall repair, and furniture repair.

## Art Department

High School Art
Grade Levels: 10, 11, $12 \quad$ Length: 1 semester or 1 year Hours: 1 or 2
Course Description: Comprehensive course that enables students to explore several forms of art (drawing, painting, sculpture) and to create individual works of art. Students will be challenged to refine their skills while developing their own artistic style.

## Mixed Media

Grade Levels: $9 \quad$ Length: 1 semester or 1 year Credit Hours: 1 or 2
Course Description: Students learn and refine drawing skills and are taught techniques using a variety of media from acrylics, charcoal, watercolors, collage, pencil, pen and ink, pastels, chalk, and mixed media.

## Ceramics I

Grade Levels: 10, 11, $12 \quad$ Length: 1 semester or 1 year Hours: 1 or 2
Course Description: Pottery/Sculpture is taught to challenge the technical and imaginative skills of students. Students will learn basic through advanced wheel throwing, hand-building techniques, and their respective applications. Students will also develop their own glazes as well as load and fire the kilns themselves.

## Advanced Art

Grade Levels: 10, 11, $12 \quad$ Length: 1 semester or 1 year Hours: 1 or 2
Course Description: Students will further develop awareness, appreciation, and understanding of visual art through studio production, history and appreciation, and group and personal evaluation. This course is designed for the serious art student. The student/artist will develop a personal plan for concentrating on and working in a media of choice. The student/artist will develop a personal plan for concentration on and working in a media of choice. The student will have the opportunity to explore and discover more about the areas of art he/she is interested in, with emphasis on individual development and style. Throughout the semester, the student will compile a portfolio of work suitable for use in entrance to an art school or for employment purposes.

3D Art and Sculpture
Grade Levels: 10, 11, 12
Length: 1 semester or 1 year
Credit Hours: 1 or 2
Course Description: 3D art is designed for students interested in three-dimensional art. Students will use different resources to create a variety of three dimensional art. Students will explore the conceptual use of their medium to define their skills and creativity.

# Business \& Technology Department 

## Accounting I

Grade Levels: 9, 10, 11, 12 Length: 1 year Credit Hours: 2
Considerations: This is for all students: workforce and post-secondary education bound. This is the course that should be required ... it's that good!
Course Description: Accounting is the backbone of business. Be balanced. Money talks, and accounting is the language of business. Unlock the mystery and you become not only business-savvy but also the go-to person for understanding one- and two-owner business operations.

## Accounting II

Grade Levels: 10, 11, $12 \quad$ Length: 1 year Credit Hours: 2
Prerequisite: Must have successfully completed Accounting I with a $C+$ or higher. (Instructor approval)
Considerations: There's much more. Accounting is a life skill which overlaps in many career areas. Further knowledge = unstoppable employment opportunities.
Course Description: Springboard beyond the structure of one- or two-owner businesses toward the corporate level.

Accounting III \& IV
Grade Levels: 11,12 Length: 1 year each Credit Hours: 2
Prerequisite: Must have successfully completed previous levels (Instructor approval)
Description: An extensive interest in studying business and/or accounting at the post-secondary level.
Seniors in Accounting I (last semester seniors only)
Grade Level: $12 \quad$ Length: 1 semester Credit Hours: 1
Prerequisite: Instructor approval
Considerations: IF you are reading this, GOOD FOR YOU! Next step-come see me. Sign up. Guarantee you will be glad you did. If you are a senior, last semester, willing to work independently (and have a track record to back it up), visit with the instructor for details.

## Introduction to Business

Grade Levels: $9,10,11,12 \quad$ Length: 1 semester Credit Hours: 1
Considerations: Grasp the basics. Nibble on the business possibilities.
Course Description: You want to talk business? Then sign up. This course will include, but not be limited to the following: business ownership, business practices, management/marketing concepts, ethical decision-making, current trends in our free enterprise system, business use of social media. We will toss in some global issues and, depending on what else might pop up, the schedule will need to be flexible. We'll have a book for reference, but use multiple sources for our semester together. Plan to gain a new and rich understanding of business-it's
EVERYWHERE.

Financial Literacy - Required course.
Grade Level: 11 or $12 \quad$ Length: 1 semester $\quad$ Credit Hours: 1
Course Description: Understanding and managing personal finances are keys to one's financial success. This course covers the essential knowledge and skills needed to make informed decisions about real-world financial issues. Students will learn how choices influence occupational options and future earning potential. This course is designed to help students make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success.

## Workplace Readiness Required course.

Grade Level: $11 \quad$ Length: 1 semester Credit Hours: 1
Prerequisite: Helpful to have taken Beginning Computer Applications
Course Description: Units may include: Identifying skills sets, career exploration and research, developing job seeking/keeping tools, job shadow experience, communication skills development, personal finance (including budgeting, saving, payroll, taxes), personal/business ethics, global awareness.

Beginning Computer Applications Required course.
Grade Levels: 9,10,11,12 (Best to take in 9th grade.) Length: 1 semester Credit Hours: 1 Course Description: This course is all about document design, special effects, and looking and being professional. Units include: Word Processing, Spreadsheets, Presentation skills.

Advanced Computer Applications
Grade Levels: $9,10,11,12 \quad$ Length: 1 semester Credit Hours: 1
Prerequisite: Beginning Computer Applications
Course Description: Let's ramp it up a bit. Communicating professionally takes focus. Let this semester bring you that skill level. (Includes WORD and EXCEL, PowerPoint, Prezi, Canva) We will work to be sure that students have mastered using the software already learned from BCA.

## Podcasting

Grade Levels: $9,10,11,12 \quad$ Length: 1 semester Credit Hours: 1
Course Description:This course will focus on teaching brand new podcasters how to create a podcast from the bottom up. It will cover everything from strategies on creating a podcast, marketing a podcast, finding the right guests, and even what equipment is needed to set up and run a brand new podcast. Students in the class will work together to produce a Danville Community School Podcast along with creating one either solo or partnered on a topic of their choice. If you're looking for a class where you'll be given a platform to share your passion, this class is for you.

## Sports \& Entertainment Marketing

Grade Levels: 9,10,11,12 Length: 1 semester Credit Hours: 1
Course Description Sports and Entertainment Marketing is a 1 semester course that is designed for students with an interest in marketing in terms of the sports and entertainment industries. The course stresses the utilization of fundamental marketing concepts and how they are used within these two industries. Topics include marketing strategies, sponsorship, pricing, market research, endorsements and promotions. The course will develop critical thinking, decision making and communications skills through real world applications.

Fabrication and Sales (semester)
Grade Levels: 10, 11, $12 \quad$ Length: 1 semester Hours: 1
Prerequisite:Class size limited to 14. Ideally students will have taken Welding. Co-Taught with Welding Course Description: Fabrication and Sales takes the mechanical, welding, and plasma cutting skills from welding and turns them into a real world experience of a business operation. A majority of businesses in the U.S. are operated as a Sole Proprietorship, and students can take skills learned from this course to potentially apply it to a business model of their own someday. As a result of this class, the following business topics will be experienced during the course: buying/selling, marketing and business management. Students will be asked to do the following: create and sell their own product, work with customers, and communicate with members of their class/team as well as customers.

## First Tech Challenge

Grade Levels: $9,10,11,12 \quad$ Length: 1 semester or 1 year Credit Hours: 1 or 2 Considerations: It is recommended that all students enroll in the fall semester because that's when we focus on the building and programming section. Preferably take the entire year for maximum effect.
Course Description: Participate on a team and work on goals for the FTC robotics competitions throughout the year. You will have a chance to build, plan, promote and program a robot.

MOC Class and MOC Work
Grade Levels: 9, 10, 11, $12 \quad$ Length: 1 semester Credit Hours: 1 for MOC Class 1 for MOC Work Considerations: Employment is required of these courses.
Course Description: This course helps students enter the workforce through career exploration. Topics covered include career planning, money management and communication skills. Job performance and evaluations wil lbe part of the student experience and grade evaluation..

## English Department

Communications - Required course
Grade Level: 10, 11, $12 \quad$ Length: 1 semester Credit Hours: 1
Course Description: Modern technologies have made the world increasingly dependent on the spoken word. In this one-semester course, we will examine the art of communicating in both formal and informal situations. The first quarter will concentrate on interpersonal communications, including skills for getting along with others and skills for listening. Also we will be examining the structure and art of debate. The second quarter will concentrate on organizing and presenting three formal speeches.

English I - Required course
Grade Level: $9 \quad$ Length: 1 year Credit Hours: 2
Course Description: English I combines grammar and compositions with a heavy study of literature, both classic and contemporary. Students will be expected to read and write at a $9^{\text {th }}$ grade level. This prepares students to communicate their thoughts and ideas and enables them to build a foundation for success in school and in life. There is a heavy focus on composition, digital literacy, work ethic, and analyzing literature.

English II - Required course
Grade Level: 10 Length: 1 year Credit Hours: 2
Prerequisite: English I
Course Description: Throughout the year we will incorporate vocabulary, grammar usage, sustained silent reading, and free writing into each of the following units:
The Short Story Unit - Here we will discover the elements included in short stories. We will read several short stories that are all exemplary samples of each element. We will also be doing some creative writing during this unit.
The Drama Unit - Here we will learn what it takes to create a drama. We will read different dramas that are from two very significant points in history. We will compare and contrast these dramas and will include research and writing about certain aspects from those specific eras.
The Novel Unit - This unit will not only discuss the elements of the novel, but it will also include themes such as prejudice and the Great Depression as told by the authors of the novels we read. We will learn how to write detailed character descriptions and plot summaries.
The Research Paper Unit - It is during this unit that research skills are developed. We will learn about topic selection, thesis writing, library skills, Internet research, rough draft writing, revising, editing, citing sources and plagiarism. Topic-related reading will be done at this time.
The Poetry Unit - Reading poetry actively is one of the main focuses of this unit. We will learn how to read a poem to discover its meaning. This will be done through various types of poetry.

English III - Required course
Grade Level: 11
Length: 1 year Credit Hours: 2
Prerequisites: English I and II
Course Description: The junior year of English focuses on the study of American literature. Units will progress chronologically and will include a mixture of writings from each time period. Study will include the effects that society's advancement has on the literature. Major authors will be stressed, and a comprehensive look at the author's backgrounds will be taken to better understand the messages contained in their works. Three major works are included in the year-long course: Miller's The Crucible, Hawthorne's The Scarlet Letter, and Wilder's Our Town.

English IV - Required course
Grade Level: $12 \quad$ Length: 1 or 2 semesters Credit Hours: 1 credit per semester
Prerequisites: English I, II, III
Considerations: One semester fulfills the 12th grade English requirement for graduation. Two semesters are recommended. Course Description: Western literature and world literature are included in this course. Composition and writing skills units are based on individual student needs. Papers include a research paper, a comparison paper, and a literary analysis paper. The objective of the course is to better prepare the student for English skills required for higher education.

English Appreciation - Required if not enrolled in English IV
Grade Level: $12 \quad$ Length: 1 semester Credit Hours: 1

Prerequisite: None
Considerations: Either one semester of English Appreciation or English IV fulfills English requirement for graduation. Course Description: Activities and lessons for English Appreciation reflect real-world
application. Students will explore literature through popular modern and classic dramas, novels and films to broaden their understanding and increase their everyday enjoyment. Building on abilities they already have, students will also learn practical new techniques for decoding unfamiliar words in any situation. The exact topics studied in English Appreciation depend in part on what the students identify as their own interests, needs, and goals. As a result, students are often allowed to choose which literature and composition units, films, or Internet research we do. For instance, pupils may choose to use their powers of logic and reasoning to outwit their classmates at a town meeting in a role-playing activity, or to predict and then verify the effect of powerfully crafted words on their friends' buying habits.

## Popular Reads

Grade Level: 11, Length: 1 semester Credit Hours: 1 Prerequisite: Passing English and reading grades
Course Description: This course ties into individual student passions in literature. The focus will be on analysis of the books read.. This analysis will occur through individual discussion with the teacher, discussion in groups, writing an essay, or presenting their book review in different multimedia formats.

Theatre Through Acting
Grade Level: $\quad 9,10,11,12 \quad$ Length: 1 semester Credit Hours: 1
Course Description: The styles and genres of theatre will be explored in this one-semester fine arts course. For each of the major theatre genres a look will be taken at the development of theatre and acting styles and a performance will be conducted which concentrates on one aspect of acting. A children's theatre production is usually staged to coincide with the holiday season.

Film Studies
Grade Levels: $9,10,11,12 \quad$ Length: 1 semester Credit Hours: 1
Course Description: Students learn to examine film on a critical level and apply analytical skills. Topics include editing, color, visual design, cinematography, fictional and dramatic elements and thematic elements.

## Family and Consumer Science Department

Culinary classes teach high school students how to create a food budget, prepare, modify, and serve nutritious foods. Family and Consumer Science introduces the three main career areas of FCS: Culinary Arts, Child Development and textiles and clothing. Marriage and Family covers topics on relationships from dating through engagement and marriage. Child development and growth is the main topic of study in Parents and their children. In this class students learn about children ages 0-4 using a hands-on approach by going to the Danville Daycare Center. Career options within FACS are explored throughout the FACS curriculum along with wise consumerism, reading, and mathematics as they relate to the different FACS courses.

## Introduction to Culinary Arts

Grade Level: 9, 10, 11, 12
Length: 1 semester
Credit Hours: 1
Prerequisite: None
Course Description: In this course we'll be looking into a different selection of topics included in the Family and Consumer Science area. We will be examining the topics of parenting and childcare responsibilities, child development, personal finance, fashion and apparel, and housing and transportation through the lens of Family and Consumer Science. We will be focusing on some details within these areas including: physical and mental health; using credit; saving for your future; clothing needs, design, and care; choosing and maintaining a place to live on your own; as well as personal transportation options. (Pre-requisite for Marriage and Family; Parents and their Children; Textiles and Sewing I.)

Prerequisite: Introduction to Culinary Arts
Considerations: Limited to 12 students.
Course Description: Culinary I is a follow-up course in food and nutrition that broadens your understanding of the impact food has on our lives. Food preparation gives guidelines for selection, shopping, and preparing each type of food. Students plan, prepare, and serve nutritious foods from various food groups, and learn about modifying or substituting ingredients for sodium, sugar, and fat content. Food preparation in various food labs includes main dishes, vegetables, breads, and desserts. Careers in food and nutrition and skills necessary for how to get and keep a job are also studied.

Baking and Food Science (Culinary II)
Grade Level: 10, 11, $12 \quad$ Length: 1 semester Hours: 1
Prerequisite: Introduction to Culinary Arts
Considerations: Limited to 12 students.
Course Description: Culinary II is a follow-up course in food and nutrition that focuses on baking skills in various food groups as well as the scientific effect of different ingredients on the final products. One major emphasis of the course will be the lessons on how and why accurate measuring is so critical when participating in the science of baking. There will also be exploratory food labs to detect and define the impact of various edible chemicals on recipes and the food produced. Students will also be encouraged to more fully develop their sensory skills as well as more accurate vocabulary to be used as they learn to utilize seasonings and develop a sense of palatable food textures and more appealing food presentation.

## Culinary Enterprises (Culinary III)

Grade Level: 10, 11, $12 \quad$ Length: 1 semester $\quad$ Hours: 1
Prerequisite: Introduction to Culinary Arts
Baking is a science and cooking is an art. This course will explore the Art of cooking. This class will experience the delicate balances of flavor and texture in foods. Culinary cuisines from different countries will be practiced. Students will also explore the restaurant industry.

Introduction to Design
Grade Level: 10, 11, $12 \quad$ Length: 1 semester Hours: 1
Prerequisite: Introduction to Culinary Arts
Introduces students to and will expand their knowledge of various aspects of wearing apparel, sewing, and fashion. These courses typically include wardrobe planning; selection, care, and repair of various materials; and construction of one or more garments. They may also include related topics, such as fashion design and history, social and psychological aspects of clothing, careers in the clothing industry, and craft sewing.

## Health \& Physical Education Department

Health I \& II (offered fall even years/spring odd years)
Grade Level: $\quad 9,10,11,12 \quad$ Length: 1 semester

## Credit Hours: 1

Course Description:

- Health I (1st semester) focuses on health skills, mental, emotional, family and social health. You will learn how to manage stress and have healthy family and friend relationships.
- Health II (2nd semester) deals with reproduction, nutrition, and personal health. The importance of physical fitness will be addressed.

Health III \& IV (offered fall odd years/spring even years)
Grade Level: $9,10,11,12 \quad$ Length: 1 semester Credit Hours: 1
Course Description:

- Health III (offered $1^{\text {st }}$ semester) deals with the use of alcohol, tobacco, and other drugs. Communicable diseases and chronic diseases will also be covered. The discussions and learning of
- Health IV (offered $2^{\text {nd }}$ semester) will involve consumer and community health, environmental health, and injury prevention and personal safety.

Physical Education - Required course each year
Grade Level: $9,10,11,12 \quad$ Length: 1 year Credit Hours: 1
Course Description: The program provides you with an opportunity to develop skill and understanding of a variety of sports activities that will serve you throughout life. Other objectives dealt with are increased strength and endurance, better motor skills, and improved health practices. These objectives are not only an end in themselves, but are also a means to better adjustment to society. In this respect, physical education could be described as education through the physical. It is required that each student take Physical Education.

## Weightlifting

Grade Level: $9,10,11,12 \quad$ Length: 1 year Credit Hours: 1
Course Description: Course helps students develop knowledge and skills with free weights. This class will help the athlete and non-athlete by emphasizing safety, proper lifting techniques and body mechanics. Additional topics could include conditioning and nutrition.

# Mathematics Department 

## Pre-Algebra

Grade Level: $9 \quad$ Length: 1 year Credit Hours: 2
Prerequisite: Teacher Recommendation only
Considerations: Fulfills requirements for graduation of 1 of 3 math classes
Course Description: This is an algebra-based curriculum with added activities and lessons for more guided instruction. Topics include data and relationships; patterns, change and expressions; introducing functions; solving linear equations.

## Algebra I

Grade Level: $8,9,10,11,12 \quad$ Length: 1 year Credit Hours: 2
Considerations: Fulfills 1 of 3 math courses required for graduation
Course Description: Algebra is the branch of mathematics that deals with variables; properties of operations and formulas. Topics include discovering data and relationships; patterns, change and expressions; functions; solving linear equations and inequalities and graphing systems.

## Algebra II

Grade Level: 9, 10,11,12 Length: 1 year Credit Hours: 2
Prerequisite: Algebra I; Pre- or Co-requisite: Geometry
Considerations: Students who are college bound in any field will need an increased knowledge of Algebra.
Course Description: Algebra II expands and deepens a student's knowledge of algebra. We continue from Algebra I to solve equations, inequalities, and systems of equations. We become more sophisticated in using algebraic models to solve problems. We begin to explore connections between algebra and graphs of algebraic functions. The scientific calculator is used throughout and graphing calculator technology is introduced. We begin to explore transformations of functions with the help of technology. Topics of study include quadratics, polynomials, rationals, radicals, complex numbers. A college preparatory requirement.

## Geometry

Grade Level: 9, 10, 11, 12
Length: 1 year
Credit Hours: 2
Prerequisite: Algebra I
Considerations: Fulfills 1 of 3 math courses required for graduation
Course Description: The objective of the course is to help students to understand the nature of a mathematical system and to appreciate the basic structure of geometry. It should help develop powers of spatial visualization, and help one recognize the way in which algebra and geometry complement each other. The course also should help one perceive the role of inductive and deductive reasoning, both in mathematical and non-mathematical situations.

## Applied Math

Grade Level: 10,11,12 Length: 1 semester Credit Hours:1
Prerequisite: Teacher approval Considerations: Fulfills 1 of 3 math courses required for graduation Course Description: Course reinforces general mathematics skills; extend these skills to include some pre-algebra and algebra topics; and use in a variety of practical, consumer, business and occupational applications. This class is taken in conjunction with Applied Math

## Informal Geometry

Grade Level: 10, 11, 12
Length: 1 semester
Credit Hours: 1
Prerequisite: Teacher approval Considerations: Fulfills 1 of 3 math courses required for graduation Course Description: Course emphasizes a practical approach to the study of geometry and deemphasizes an abstract, formal approach to geometry. Topics typically include properties of work with planes and solid figures; inductive methods of reasoning and use of logic and direct applications of geometry to everyday life. This class also is taken in conjunction with Applied Math.

## Trigonometry

Grade Level: 10,11,12
Length: 1 year
Credit Hours: 2
Prerequisite: Algebra II
Considerations: Business majors, Math majors, Physics majors, Science majors, or anyone planning to go into a field requiring manipulations of complicated information should take this course.
Course Description: The underlying theme of this course is mathematical connections. Graphing calculator technology is thoroughly integrated to assist us with visualization and connections. As each unit is studied we focus on how to model the real world problem algebraically. Then we solve the algebraic model. Finally the graphing calculator allows us to graph and visualize the algebraic model and graphically confirm our algebraic solutions. We study linear, quadratic, polynomial, rational, and radical functions. We follow that with exponential, logarithmic, and trigonometric functions. The course provides a deep and rich understanding of mathematics and builds a solid intuitive foundation for calculus.

## Motorcycle Math

Grade Level: 10,11,12
Length: 1 semester
Credit Hours: 1
Course Description: This course reinforces general mathematical concepts and skills to include pre-algebra, algebra and geometry. These skills are applied in an occupational application of building a motorcycle.

# Music Department 

## High School Choir

Grade Level: 9, 10, 11, $12 \quad$ Length: 1 year Hours: 2 credits
Prerequisite: The High School Choir takes a major trip once every four years. In order to qualify for this trip, students must be enrolled in this course all four years of their high school career.
Course Description: The choir rehearses and performs 4 to 5 concerts a year. Students are required to attend all performances. All students are encouraged to participate in various small ensembles or to prepare a solo for Solo and Ensemble Contest in April.

## Show Choir

Grade Level: 9, 10, 11, $12 \quad$ Length: 1 year Credit Hours: 2 credits
Prerequisite: Participants are selected from students in high school choir.
Course Description: Show choir is a performance-based class, where students learn to prepare and perform popular music. Students will learn to put choreography to music, as well as text interpretation, facial and body expression and performance skills. Show choir performs at various local competitions, Iowa HS Music Association state contest and the annual DHS Dinner Theatre fundraiser.

High School Instrumental Music (Band)
Grade Level: 9, 10, 11, $12 \quad$ Length: 1 year Hodit Hours: 2
Prerequisite: Prior Band experience or instructor's consent. Students must be able to play music at a high school level.
Considerations: Students need access to an instrument for use in class. After school and weekend performances required.
Course Description: This class is required for participation in all high school instrumental performing groups (concert band, jazz band, pit orchestra, pep band, solo/ensemble, etc.). Students will study band literature appropriate for a high school group along with performing techniques required for advanced playing. The class will also study rudimental music theory, (keys, form, terms, etc.) and music appreciation that is necessary for performing and studying instrumental music. Advanced players may audition for All-state and SEIBA honor and jazz bands.

## Resource Department

## Transition Seminar

Grade Level: 11, 12
Length: 1 Year
Credit Hours: 2
Course Description: This class places an emphasis on the student's relationship with their school and community resources. Instruction will vary depending on the needs of the students. Working closely with Iowa Vocational Rehabilitation Services, topics may include accessing community resources, employment, independent living,

## Coffee Shop

Grade Level: 9,10,11, 12 Length: 1 Year Credit Hours: 2
Course Description: As a member of the "Bearistas" and the Danville High School Coffee Shop, students will operate a small business that provides assorted beverages to the adult school community. This class places an emphasis on the basic operations of a business from cost and revenue projections, inventory, marketing and sales, tracking orders from Google Form order placement, making of beverages, the science behind (mixology) of making cost effective drinks and customer service. Students may take the class for one semester or a school year. The course may be repeated each school year with instructor permission.

# Science Department 

Physical Science - Required course
Grade Level: $9 \quad$ Length: 1 year Credit Hours: 2
Course Description: Physical Science is a course designed to introduce the student to the study of matter, motion, and the different forms of energy. Topics to be covered are the study of matter and its components, solar system astronomy, introductory chemistry, and the energy of motion, heat, light, sound, electricity, and mechanics, plus work and force. Next Generation Science Standards have been implemented into this course.

Biology - Required course
Grade Level: 10 Length: 1 year Credit Hours: 2
Prerequisite: Successful completion of Physical Science requirement
Course Description: This course abandons the traditional approach and focuses on key concepts that tell why and how rather than what. The curriculum focuses on topics relevant to students and is integrated with a Tech Prep approach to the biological sciences. Next Generation Science Standards have been implemented into this course.

## Chemistry

Grade Level: 11, $12 \quad$ Length: 1 year Credit Hours: 2
Prerequisite: Algebra II or currently enrolled in Algebra II or teacher's approval with math exam Considerations: Must have a scientific calculator.
Course Description: Chemistry is the science that investigates the composition and structure of matter, the changes which take place in it, the amounts and kinds of energy necessary for these changes and the laws which govern them. Approximately the first semester of chemistry is spent learning the basic principles and fundamentals of the course. The remainder is spent on study of the elements, their properties, reaction, etc. Simple laboratory experiments, which are related to the subject matter, are performed and their results analyzed. This course is open to all juniors and seniors, especially those students who plan to attend college and major in some field of science, such as nursing, medicine, engineering.

## General Science

Grade Level: 11, 12 Length: 1 year Credit Hours: 2
Course Description: Course involves a wide range of science topics impacting international, national, regional and local areas. Individual and group research and project based learning will be used.

## Anatomy and Physiology

Grade Level: 11, 12 Length: 1 year Credit Hours: 2
Course Description: This course presents the human body and biological systems in complexity and detail. Students explore and learn the anatomical structures and terminology of the human system and explore the functions of the skeletal, muscular, circulatory, respiratory, digestive, reproductive, and nervous systems. Dissection of mammals either in class or online is a part o the class.

# Social Studies Department 

## Current Affairs

Grade Level: 10,11,12 Length: 1 semester Credit Hours: 1
Course Description: Course allows students to explore and present findings on topics of local, national, and international interest.
Grade Level: $9 \quad$ Length: 1 year Credit Hours: 2

Course Description: American History is a chronological study of our country's story with emphasis on the 20th century. The people and events that have shaped this country will be examined as well as the forces of change throughout the world.
U.S. Government - Required course

Grade Level: 12 Length: 1 semester Credit Hours: 1
Course Description: This course includes the study of the national, state, and local governments found in the United States. Each level of government includes study of their make up, functions, powers, and relationship to the people in the United States.

## World History - Required course (1 semester) <br> Grade Level: 11, $12 \quad$ Length: 1 semester or 1 year Credit Hours: 1 or 2

Course Description: This course will focus on the history of Western Civilization from about 1600. Students will be encouraged to become "historians." Their quest will be to discover how Western Europe developed politically, economically, and culturally. Students will use a wide variety of sources piecing together their own unique understanding of each time period and area we focus on. Students will demonstrate their understanding of the material with writing assignments, projects based on independent research, and traditional assessments.

Women's Studies
Grade Level: 11, $12 \quad$ Length: 1 semester or 1 year $\quad$ Credit Hours: 1 or 2
Course Description: This course examines the history, politics,economics and culture of women in society. The course may focus primarily on the contributions of women in United States history.

Contemporary History
Grade Level: 11, $12 \quad$ Length: 1 semester or 1 year Credit Hours: 1 or 2
Course Description:This course will examine United States history from 1980 to the present. National and regional topics will be discussed as well as the role of political parties in the modern political landscape. From the Reagan Revolution to impacts from 911 to current divisiveness in politics, student will explore the challenges that face our politics and society.

## Spanish Department

## Spanish I

Grade Level: 9, 10, 11, $12 \quad$ Length: 1 year Hours: 2
Course Description: Many colleges now require two years of the same foreign language as an entrance requirement. Studying a foreign language is more than memorizing vocabulary and listening to tapes. Spanish classes teach songs, games, travel skills, and how to survive when no one nearby understands English. Students who have traveled bring their slides and souvenirs. Enrichment activities depend on class interests and can range from pinata-making to Spanish commercials on the VCR. Spanish I introduces vocabulary, grammar, and verb conjugations.

Spanish II
$\begin{array}{lll}\text { Grade Level: } & \text { 10, 11, 12 } & \text { Length: } 1 \text { year } \\ \text { Prerequisite: } & \text { " or better in Spanish I } & \text { Credit Hours: } 2\end{array}$
Prerequisite: "C" or better in Spanish I
Course Description: Many colleges now require two years of the same foreign language as an entrance requirement. Studying a foreign language is more than memorizing vocabulary and listening to tapes. Spanish classes teach songs, games, travel skills, and how to survive when no one nearby understands English. Students who have traveled bring their
slides and souvenirs. Enrichment activities depend on class interests and can range from pinata- making to Spanish commercials on the VCR. Spanish II continues with vocabulary, grammar, and verb conjugations.

## Spanish III

Grade Level: 11, 12 Length: 1 year Credit Hours: 2
Prerequisite: "C" or better in Spanish II
Course Description: Many colleges now require two years of the same foreign language as an entrance requirement. Studying a foreign language is more than memorizing vocabulary and listening to tapes. Spanish classes teach songs, games, travel skills, and how to survive when no one nearby understands English. Students who have traveled bring their slides and souvenirs. Enrichment activities depend on class interests and can range from pinata-making to Spanish commercials on the VCR. Spanish III puts all of what was learned in earlier courses to use, and then continues with open-ended conversations, free writing, and cultural activities.

## Spanish IV

Grade Level: 12 Length: 1 year Credit Hours: 2
Prerequisite: "C" or better in Spanish III
Course Description: Many colleges now require two years of the same foreign language as an entrance requirement. Studying a foreign language is more than memorizing vocabulary and listening to tapes. Spanish classes teach songs, games, travel skills, and how to survive when no one nearby understands English. Students who have traveled bring their slides and souvenirs. Enrichment activities depend on class interests and can range from pinata- making to Spanish commercials on the VCR. Spanish IV puts all of what was learned in earlier courses to use, and then continues with open-ended conversations, free writing, and cultural activities.

## Other Electives

## Teacher Aide

Grade Level: 11, $12 \quad$ Length: 1 semester or 1 year Credit Hours: 1
Considerations: A pass or fail will be recorded on the transcript.
Course Description: The Teacher Aide program has been established to provide students considering the teaching career the opportunity to gain practical experience by working with elementary or secondary teachers.. Students will be assigned to work with a teacher in an interest area and comply with the stated rules. Students will receive one credit for each semester of work. (Note: Students may only earn 2 credits total in Student Mentoring and Teacher Aide.)

## Earning College Credit During High School

Students at Danville Community High School have the opportunity to earn college credit during their high school years through several options.

## Senior Year Plus Option

Courses delivered through Senior Year Plus provide students with the opportunity to take rigorous college curriculum and receive both high school and college credit concurrently. To enroll in such a class, students may need to have good time management skills to accommodate the college's schedule.

Students may not enroll in courses that are comparable to high school offerings. Students are limited to part-time enrollment, and they may be required to earn a
certain score on a college placement test or be required to complete a high school prerequisite prior to enrolling in the college course and be proficient on their ISASP.

They may enroll in up to 23 credits per year at Southeastern Community College through Senior Year Plus guidelines. These courses earn both college and high school credit, with every three hours of college credit earning one high school credit.

Explore the Jumpstart Course Offerings at Southeastern Community College in the areas of Agriculture, Automotive Technology, Construction Technology, or Animation, Graphic \& Web Design.

Explore these links for the course offerings of Southeastern Community College.

- SCC's Catalog of Programs \& Degrees: https://www.scciowa.edu/conted/options.aspx Click on program in which you are interested.
- ICCOC (Iowa Community College Online Consortium): http://www.iowacconline.org/. Click on the Courses tab.

With the approval of the school counselor and high school principal, students may enroll in an online class through Iowa Community College Online Consortium.

## Concurrent Enrollment

The Danville Community School District reimburses the post-secondary institution for every student enrolled in each post-secondary enrollment options course. This amount is used to pay for tuition. Parent/Students are responsible for textbooks and other course fees. All students must be proficient in Reading, Mathematics, and Science on the most recent ISASP, however the only exception to this are Career and Technical Courses. To enroll in these courses, students must register through the Counseling Office, meeting the appropriate deadlines.

## College Classes in which Danville Students Have Been Most Successful

English Comp I (ENG 105) - 3 credits
English Comp II (ENG 106) - 3 credits
Public Speaking (SPC 112) - 3 credits
Fundamentals of Oral Communication (SPC 101)- 3 credits
U.S. History to 1877 (HIS 161) - 3 credits
U.S. History since 1877 (HIS 152) - 3 credits

Survey of World Religions (REL 101) - 3 credits
Introduction to Psychology (PSY 111) - 3 credits
Introduction to Sociology (SOC 110) - 3 credits
Social Problems (SOC 115) - 3 credits
College Experience (DSV 108) - 1 credit -- IF you are planning to attend SCC after graduation

Medical Terminology (HSC 114)-3 credits
Nurse Aide (HSC 168) - 3 credits.
Intro to Automotive Industry (AUT 106) - MWF 7-8:50 a.m. - 2 credits Fall Fundamentals of Automotive (AUT 126) - MWF 7-8:50 a.m. - 2 credits Fall Steering and Suspension (CRR 610) - MWF-8:50 a.m. 1.5 credits Spring Manual Drive Trains I (AUT 244)-7-9:30 a.m. T Th 3 credits Spring Basic Electricity (SCI 115) 7-7:50 a.m. MWF 2 credits Spring


#### Abstract

Course criteria that may need to met to register for a course - Prerequisites, placement testing, proficiency on lowa Assessments, background check or an essay. SCC will not register you if you have not met all the requirements prior to the date of starting the course.


## Why Take College Credit Courses?

To prepare for college! If the credits transfer and fulfill a college requirement, it is an added bonus; however, this is not the SOLE PURPOSE for taking college credit courses. It will be the student's responsibility to contact colleges to see if the credits transfer and whether courses transfer as an elective or a required course in college.

## Permanent Transcripts

If a student is to withdraw, drop, or fail a college credit course, it will be reflected on their permanent college transcript. If a student drops a college class after the college's withdrawal date, the student will receive an " $F$ " for the course on the high school transcript. A student's final grade received in a college course will be recorded on both their permanent high school and college transcript. These grades will follow students to college after high school and cannot be changed. Note if you receive and F in your college course it may affect your ability to receive financial aid when later attending a college.

NCAA or NAIA approval for courses should be taken into consideration by students anticipating participation in intercollegiate athletics in the future. Your school counselor can be a resource for this as well; however, it is the responsibility of the student and parents to ensure all requirements are met for NCAA and NAIA eligibility. You may find it helpful to consult the following websites: (www.ncaaeligibilitycenter.org or http://www.naia.org/)

## Postsecondary Course Offerings on Area Campuses

Medical Terminology (includes Human Relations and Medical Law and Ethics): Students will learn the basic language related to medical science with emphasis on work analysis, construction, definitions, pronunciations, spelling, and standard abbreviations. This course is offered 1st semester at New London High School from 7:30-8:40 a.m.

Certified Nursing Assistant (includes CPR and First Aid): Students will gain a basic level of knowledge and demonstrate skills to provide safe, effective resident care. This course is offered 2nd semester at New London High School.

PS Advanced Biology: This is a fast-paced, college prep course for all science and agriculture degrees. It is intended for students who expect to major in science-related fields in college or who have a great interest in Biology and want to continue concepts learned in Biology. It is a rigorous course taught in traditional lecture laboratory format. It $\dagger$ consists of cell biology, embryo development, classification, animal diversity, genetics, molecular biology, biotechnology, botany and microbiology. This course is offered at Danville High School.

Danville Leadership Class: This course is taught every other (odd) year depending on enrollment numbers.

